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UNIT VARIATIONS COVERED BY THIS PRINT SET	
FP78Ø-AA	
FP78Ø-AB	

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FP78Ø

Field Maintenance
Print Set

Digital Equipment Corporation

PRINT SET ORDER NO. MPØØ565

	REV	USED ON OP	TION/MODEL	j	DATE 12			79/7	dig	ital
	NO.	1178Ø-C 1178Ø-D		B. BLODGETT CHK'D D. Moog	DATE 16 FEB	TITLE:	-LO/	ATING	POIN	T
EN-01124-	CHG			PROJ. ENG.	78 DATE 27 Fu	ŀ	4CC	ELERA	ATOR	
16-N675	YTE .			FIELD SERV.	DATE	SIZE B	CODE TC		MBER Ø-Ø-1	REV.
(327)	ă, ă	SHEET I	OF _1_	Bill Reemon	27 FEB 178	DIST.				



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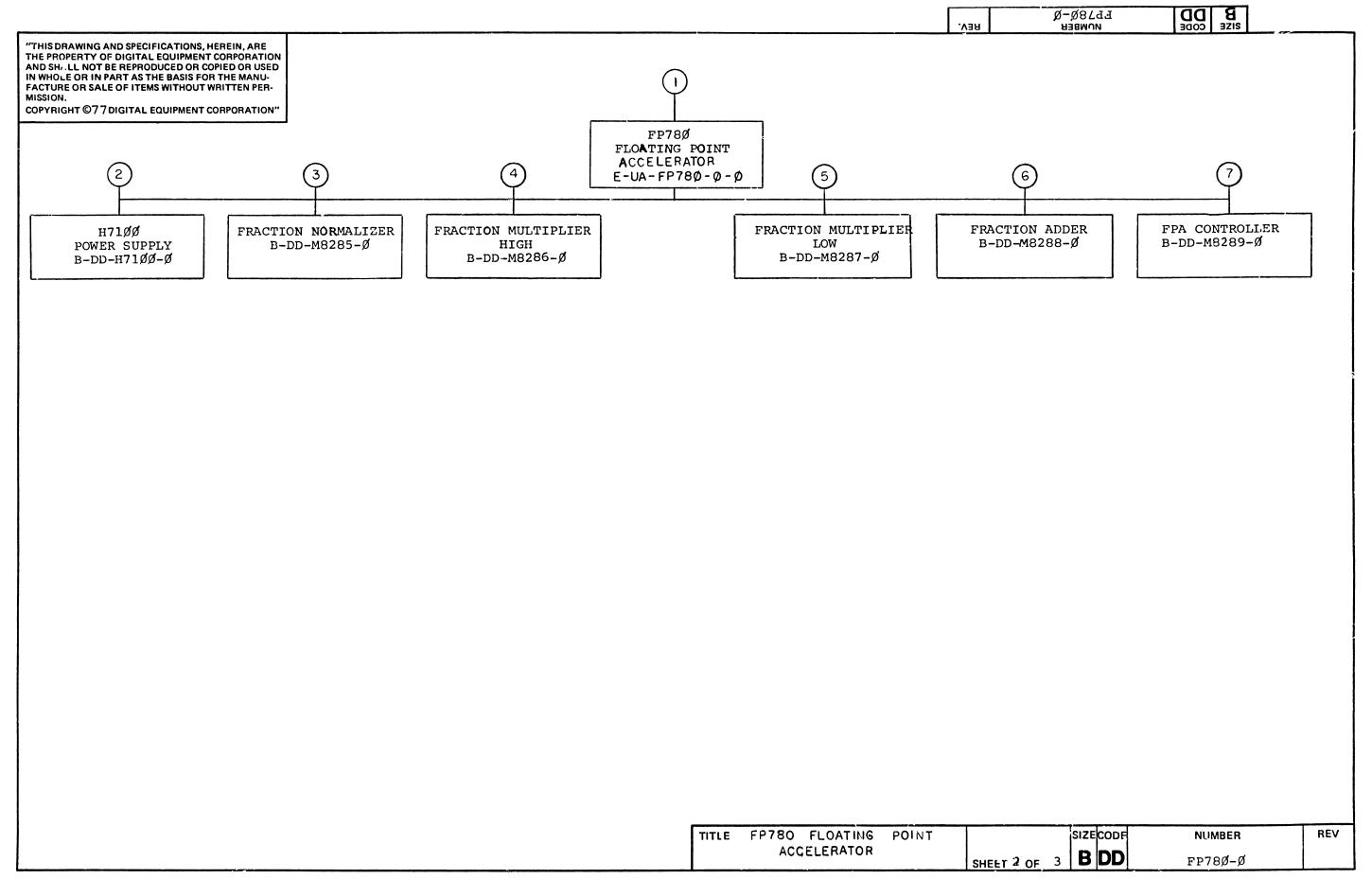
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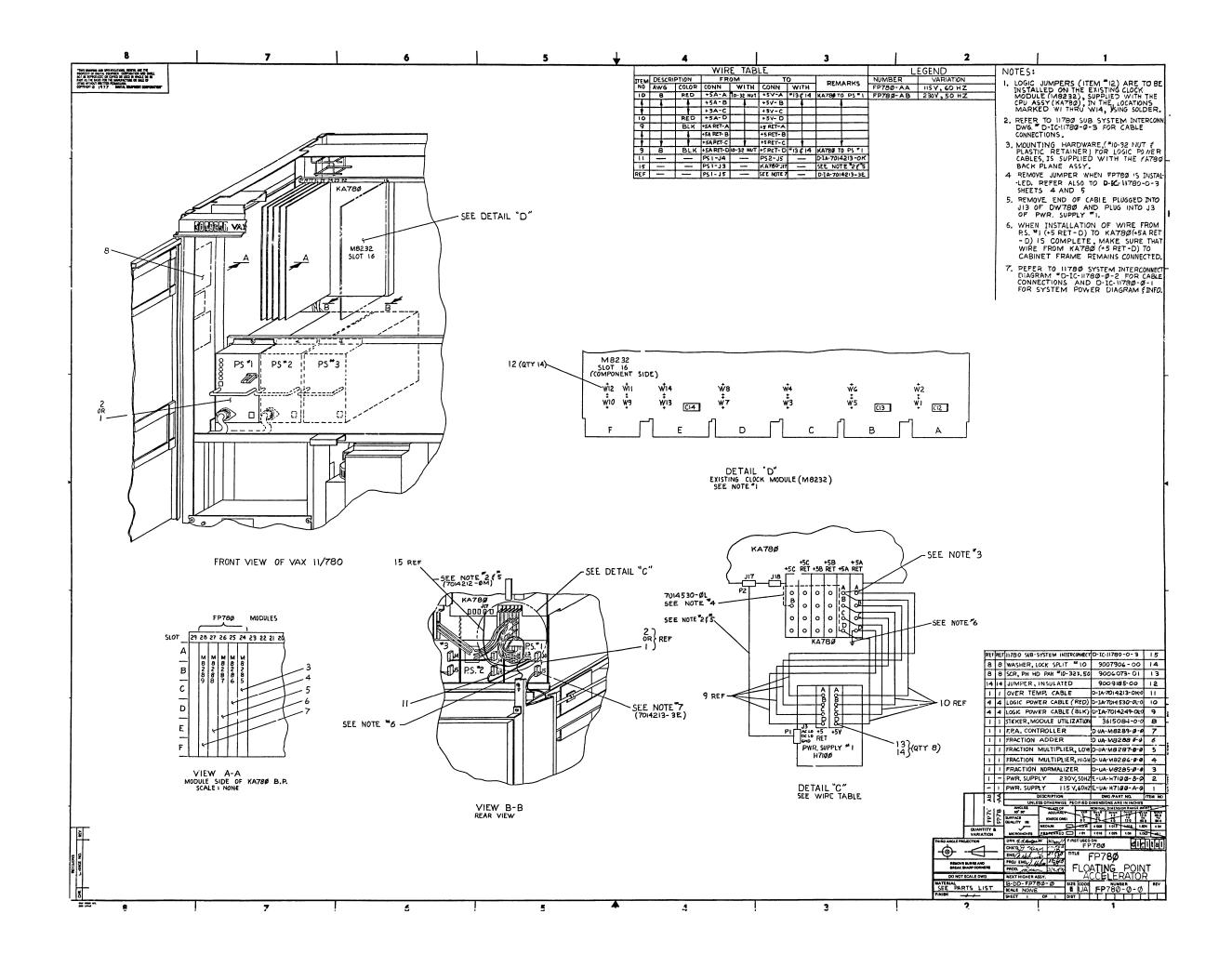
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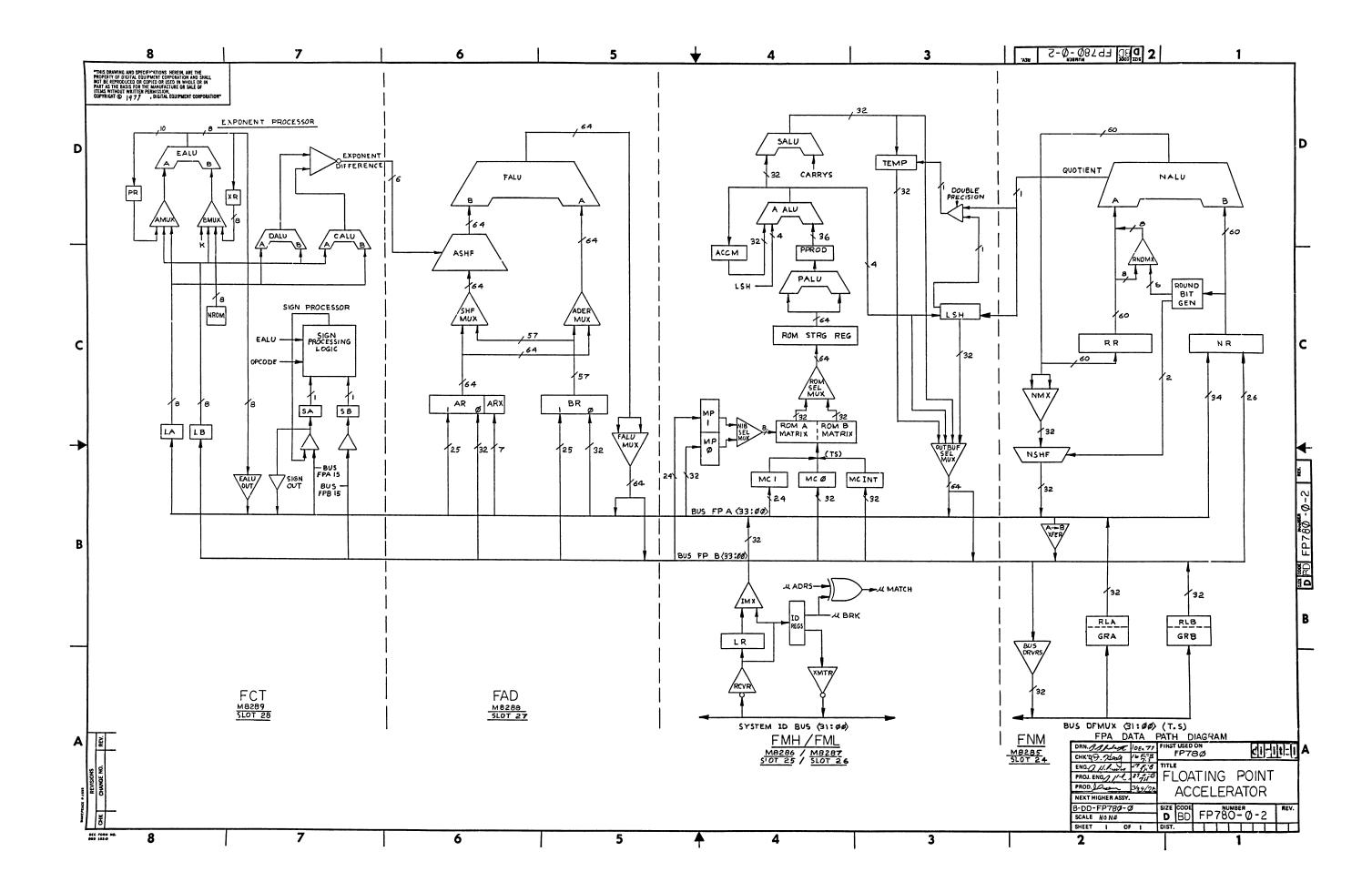
UNIT VARIATIONS							
VAR			TITLE				
FP78Ø-AA	FLOATING	POINT	ACCELERATOR	1157,	6Ø HZ		
FP78Ø-AB	FLOATING	POINT	ACCELERATOR	23ØV,	5Ø HZ		
	 						
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	» E	USED ON OPTION/MODEL		DATE 01 DEC	TITLE	[(
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REVI	CHAN		PROJ. ENG.	DATE	SIZE COD	DE NUMBER	REV
	· · · · · · · · · · · · · · · · · · ·	SHEET 1 OF 3	1 \ \ \ \	DATE 3/29/18	 	F F 7 3 p - p	



FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION
	B-TC-FP78Ø-Ø-I	(TABLE OF CONTENTS) FP78Ø FLOATING PT ACCELERATOR	+			
-	MPØØ565	(PRINT SET ORDER NO) FP780 FLOATING PT ACCELERATOR	+ = +			
	22303					
1	E-UA-FP78Ø-Ø-Ø	FP78Ø FLOATING POINT ACCELERATOR	E/M			
	D-IA-7Ø14249-Ø-Ø	LOGIC POWER CABLE (BLK)	M			
-	D-IA-7Ø1453Ø-Ø-Ø D-IA-7Ø14213-Ø-Ø	LOGIC POWER CABLE (RED) OVER TEMP CABLE	M	-	-	
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2	B-DD-H71ØØ-Ø	H71ØØ POWER SUPPLY	E/M			
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3	B-DD-M8285-Ø	FRACTION NORMALIZER				
			E/M			
-						
-			-	 		
4	B-DD-M8286-Ø	FRACTION MULTIPLIER, HIGH	E/M			
			-			
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5	B-DD-M6287-Ø	FRACTION MULTIPLIER, LOW	E/M	\vdash		
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6	BDD-M8288-Ø	FRACTION ADDER	E/M			
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-/-	B-DD-M8289-Ø	FPA CONTROLLER	E/M	+		
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	M MECHANICAL E/M ELECTRO/MECHANICAL	digi	tall		FP78Ø FLOATING P ACCELERATOR	SHEET 3 OF 3 B DD FP78Ø-Ø





digital COMPONENT SIDE VIEW SICHATURES

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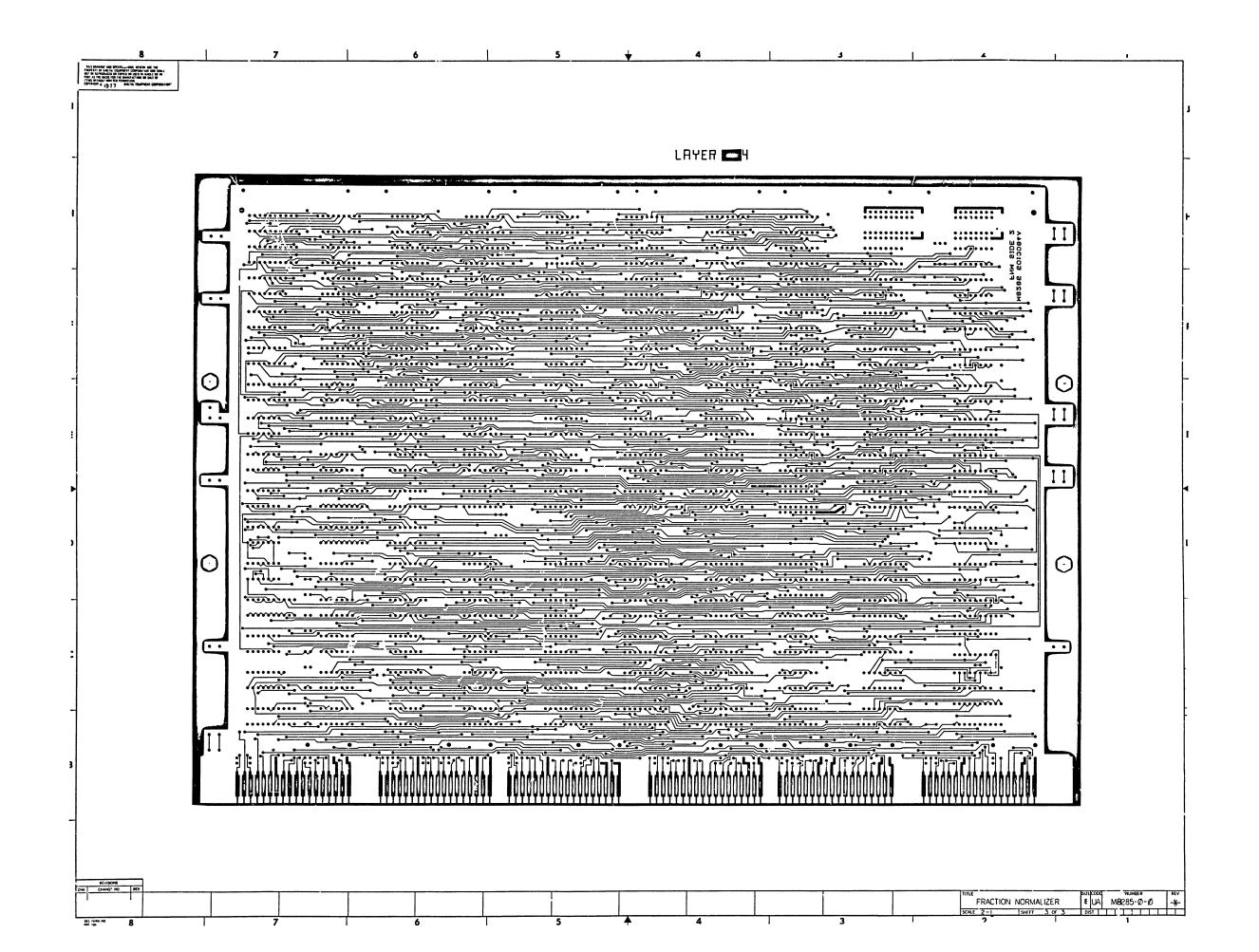
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NO.

PROJ. ENG.

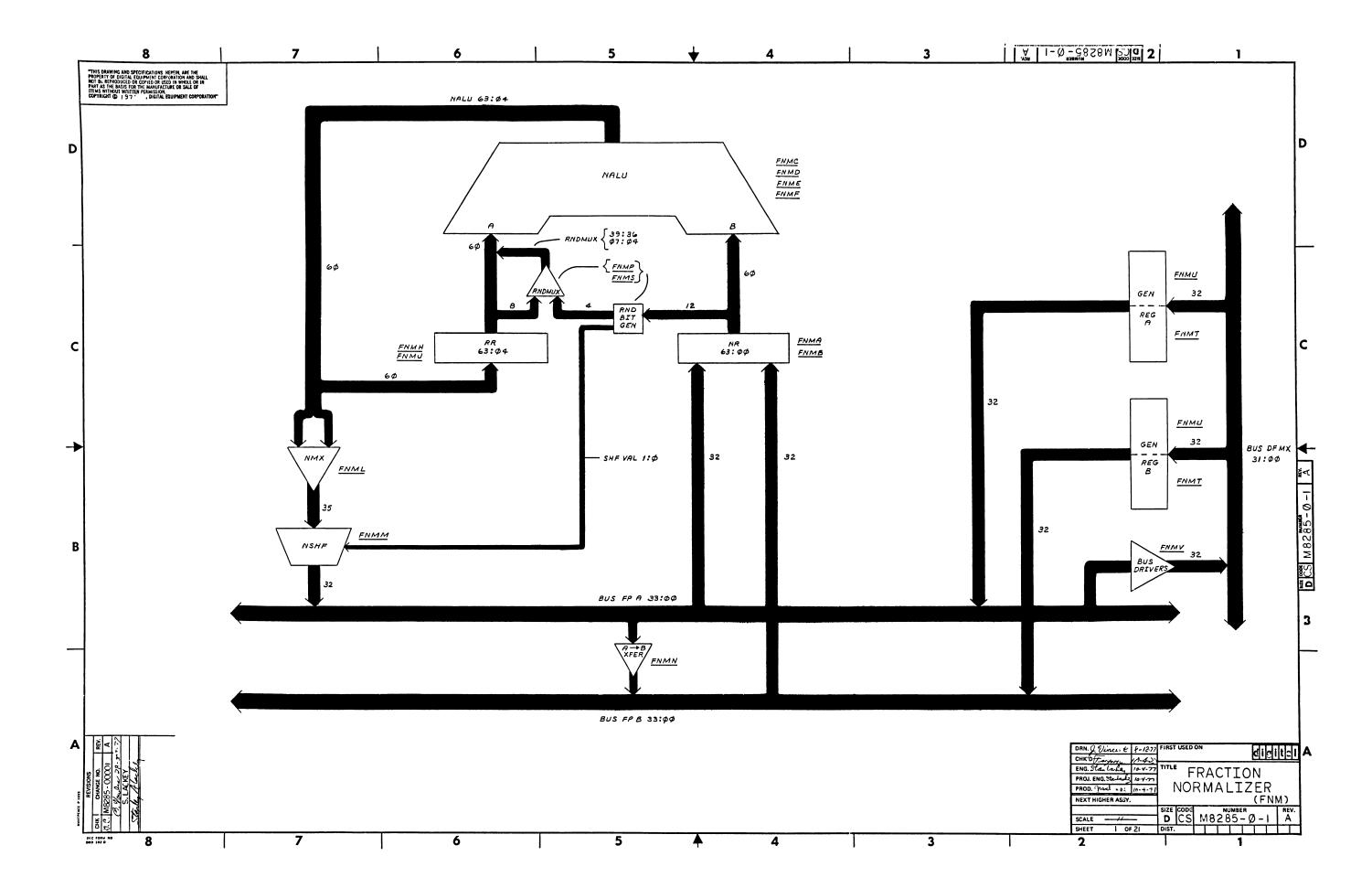
PROJ. ENG. £13 E27 # E68 E40 B ******* 8 8 8 6 8 8 6 6 8 8 6 E 54 + E126 + FIG. E27 Ú E:29 \$ E12 E67 ++ E₂e₊ ⊕ E110 ⊕⊕ ⊕ ⊕ ⊕⊕ ⊕ ⊕ ⊕ + 49+ E109 E669 £25+ £ x8" + B (1990) E24 ⊕ + E 193 | U E+38 **e**P, ⊕ £9 } £137 £78 + 6 + 6+6 + + +⊕_ . # #******* # E77[†] + Ee3 3+€37 <u> Taoooagaagaa</u> + E7 B + B +E50 + F 666 £135 E120+ E € 5 € 5 + + + ++*++ +* +* +‡m ⊕+ + + + 12.00 IN 304.8 MM FBS E194 E104 ₽ ±75 E328 6 £ £ 6 B ++++++++ + 6 + E89 +81 + ⊕⊕E47 + E20 + + + *********** • E74 B ***** E163 E32 # £133 E60 æ £132 E87 + + + + + + + €5 E73 E18 @ + £101 F-131 E45 ______ B B B E too E17 ++++ ++ ++ ++ + + + + + + + + \$ E114 £129+ + E93 + E93 + E93 +5 + €71 ⊕⊕ E1 e+ ++++ + ⊕ + + + +++ \$ £115 • E84 ++++++++ _***** \$ 1 ₹ E70 €5€ E15 + ⊕ CHICHENCE NO REV E14 \$ EB3 # B ++ E28 **** ++++ √ C8₊ → A +C9 A THE PARTY OF THE PROPERTY OF THE PARTY OF TH = 1= 132- 14 A

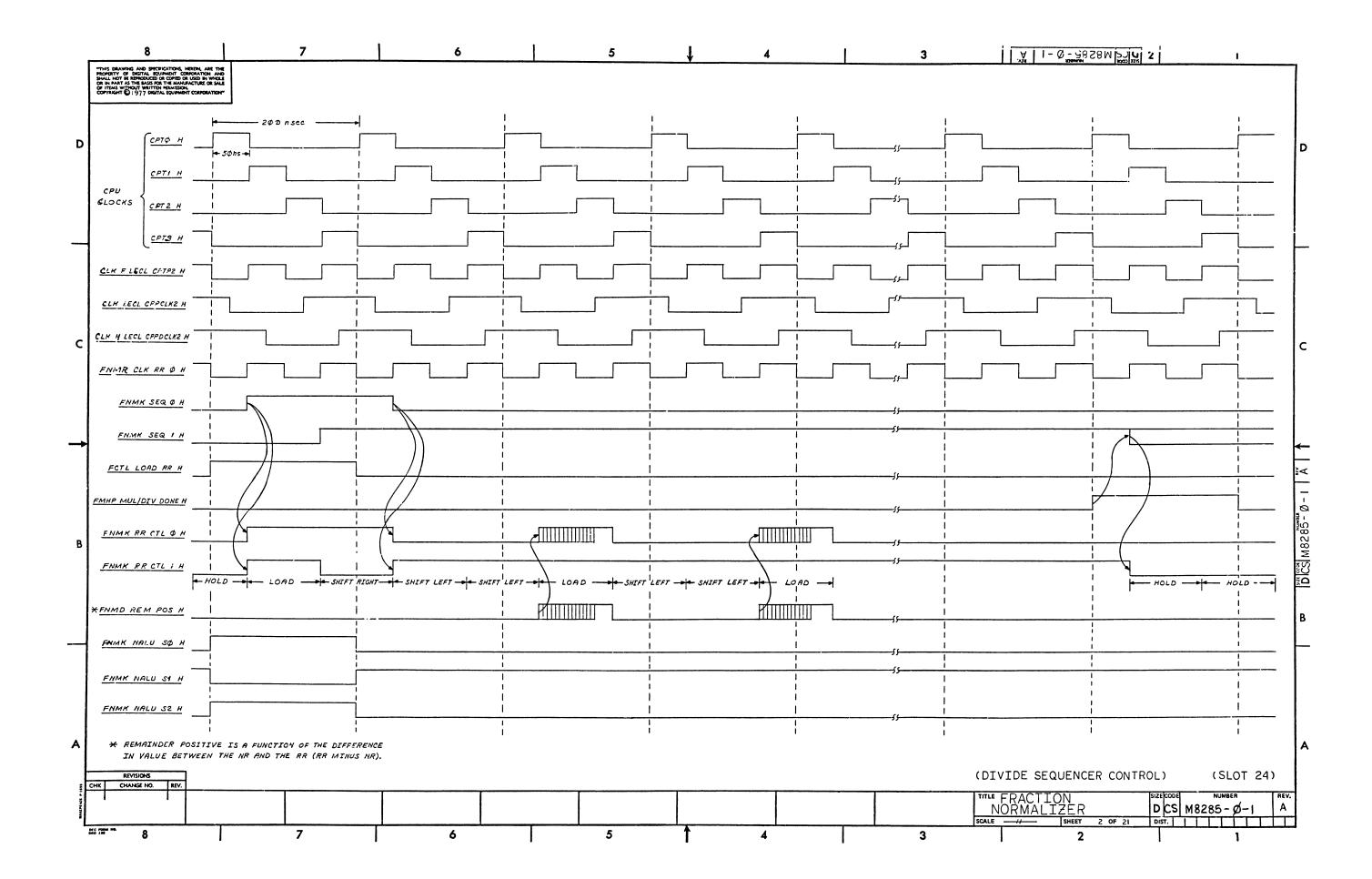
LHTERI M8285 6013084A SIDE 1 CSMABCDEFHUKLMNPRS IIIIIIIII • E27 IIIIIII • E13 miniii . 0 $\overline{\cdot \cdot \cdot}$ ••• E UA M8285-0-0 + FRACTION NORMALIZER

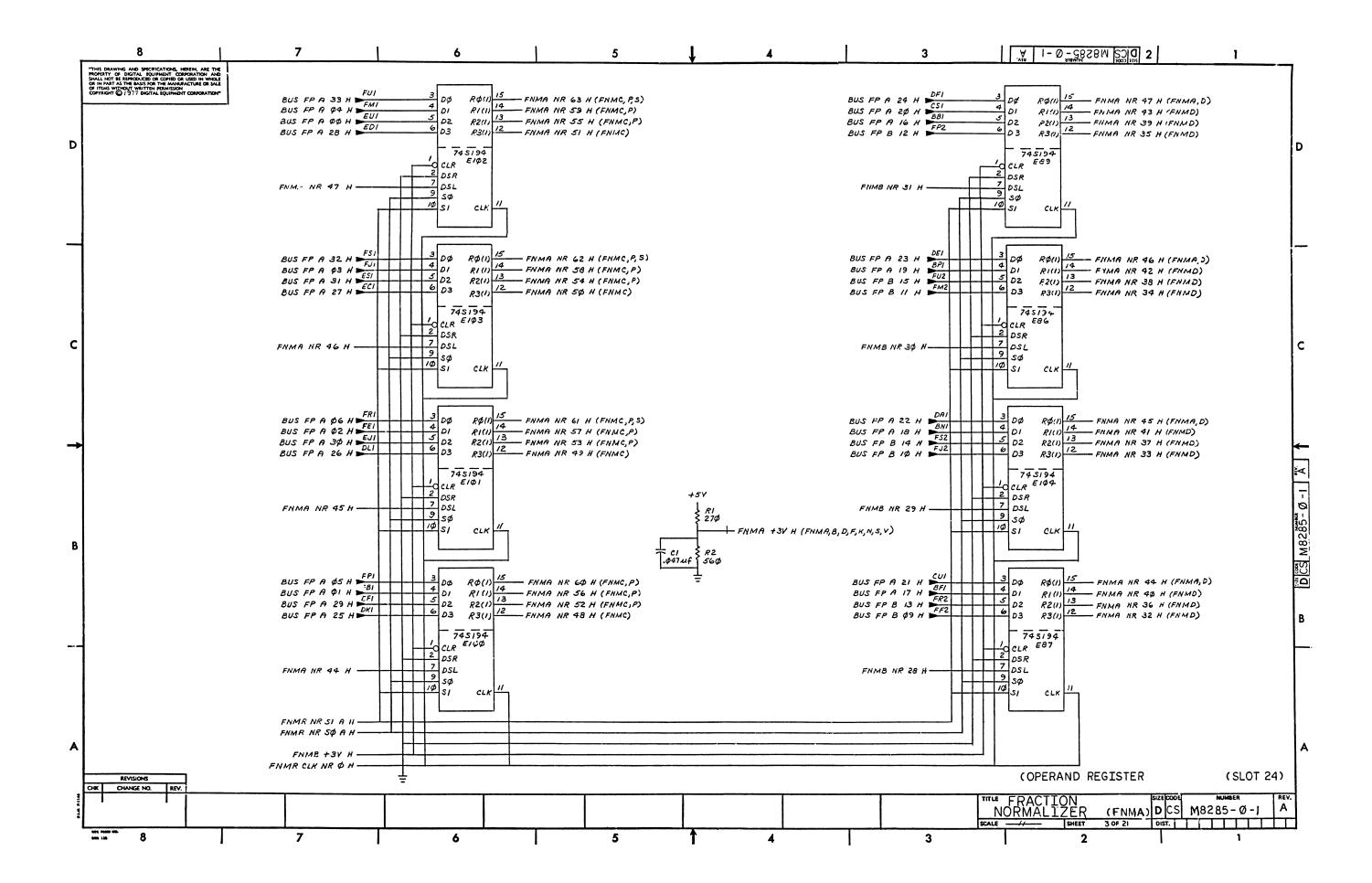


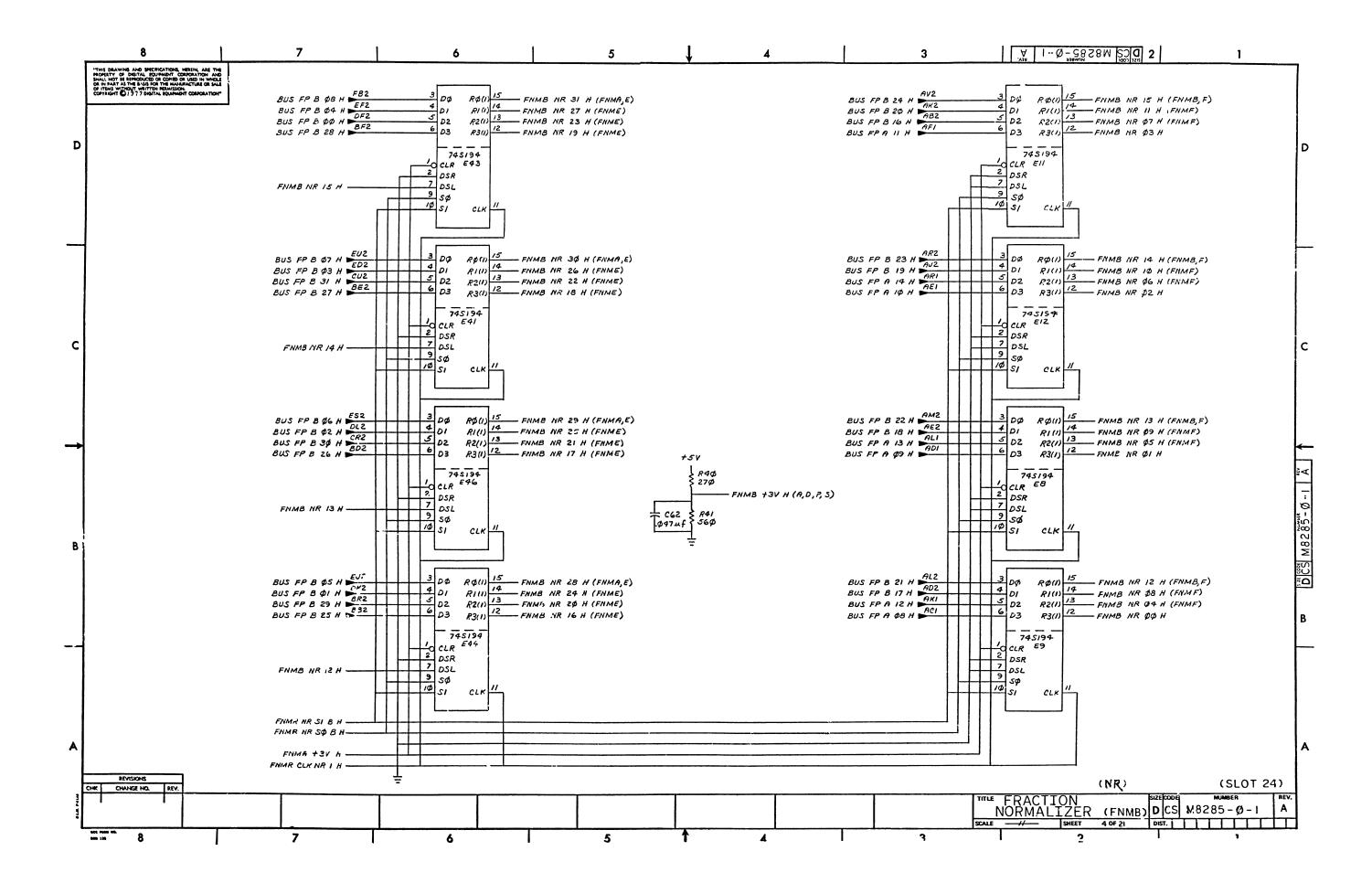
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DATE 4-0x+-77	DATE/VILLE LA	entle it it is	1 16 1 1 1		
NO. DRAWING NO	PART NO.	DESCRIPTION	M828'		REF DESIGNATION
1 D-MD-5013084-0-0	0 5013084	ETCH BOARD			
2	1910532	I.C. DEC 74SØØ	3		E79, E85, E116
3	1910534	I.C. DEC 74SØ4	4		E75,E97,E99,E133
4	1912389	I.C. DEC 74SØ8	2		E98, E129
5	1910539	I.C. DEC 74S2Ø	1		E112
6	1912746	I.C. DEC 74S37	3		E70,E82,E119
7	1910541	I.C. DEC 74S4Ø	1		E90
8	1911 71 2	I.C. DEC 74S51	3		E72,E91,E120
9	1910542	I.C. DEC 74S64	7		E114,E115,E121,E131,E132,E134,E135
10	1910544	I.C. DEC 74S74	3		E71,E80,E113
11	1910548	I.C. DEC 74S157			E52,E53,E62,E63,E64,E76.E77,E78,E81,E95,
12	1910549	I.C. DEC 74S158	2		E84,E83
13	1912097	I.C. DEC 74S182	5		E37,E51,E94,E110,E139
14	1910552	I.C. DEC 74S194	32		E8,E9,E11,E12,E39,E40,E41,E43,E44,E46,E54 E66,E67,E68,E86,E87,E88,E89,E96,E100,E101 E102,E103,E104,E107,E111,E123,E124,E125, E126,E137,E138
15	1913493	I.C. DEC 74S241	1		E69
16	1913670	I.C. DEC 74S373	8		E2,E10,E19,E22,E31,E34,E42,E59
17	1913700	I.C. DEC 74S381	15		E36,E38,E48,E49,E50,E65,E92,E93,E106,E108,E109,E122,E136,E140,E141
18	23Ø34B1 - ØØ	I.C. 256 X 8 BI POLAR TRI-STA	ATE 1		E127
E.C.O. NO.					
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COPYRIGHT © 1977 DIGITAL EC	QUIPMENT CORPORATION"			SHEET 1 OF	2 INSERTION PARTS LIST DATA BASE REV A

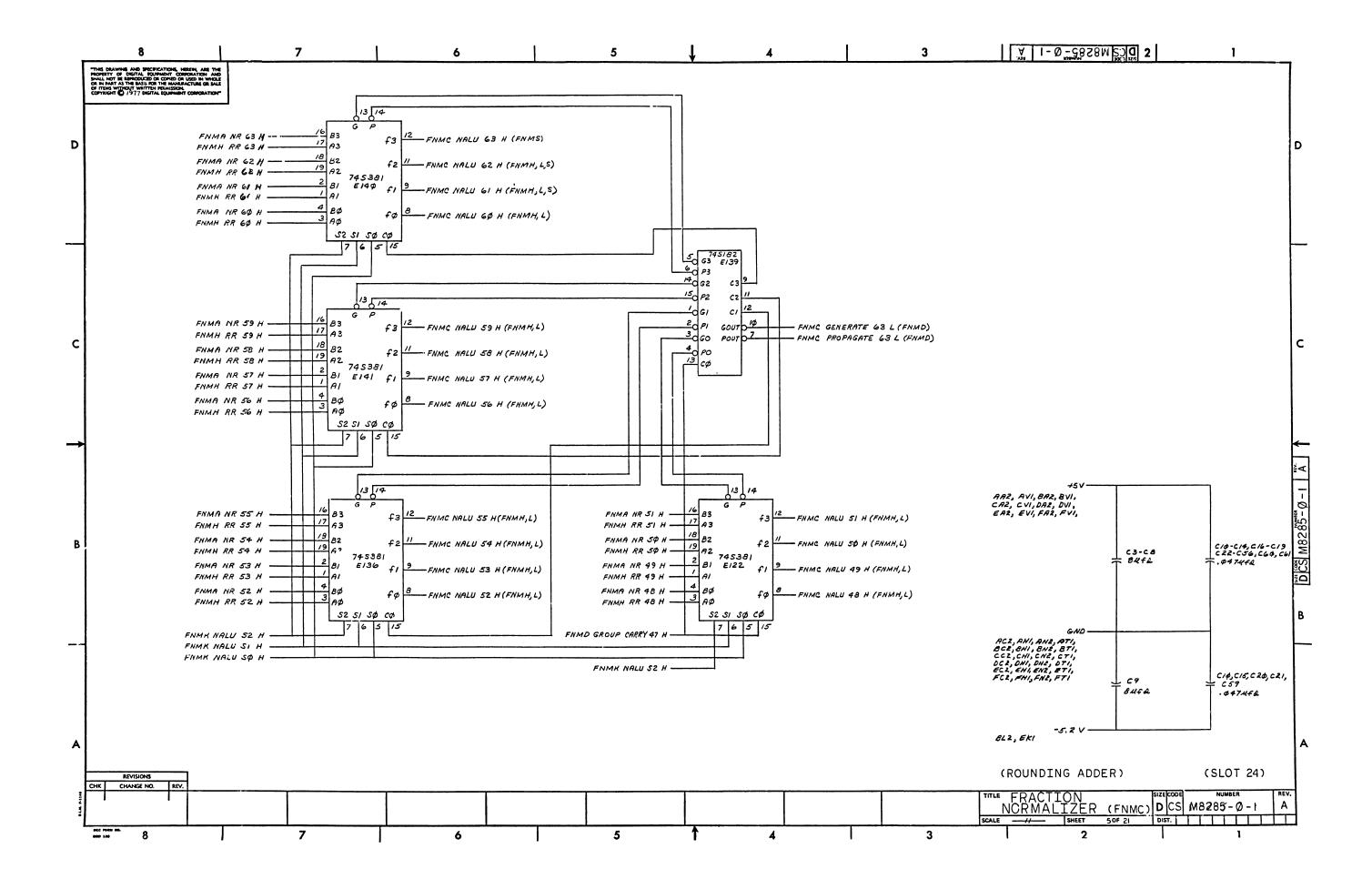
DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION	NOTES:	
DATE 20 JT ENG Stan L	M. FUNARO 20 JULY 77 Stan lacken, 4-oct-77 PARTS LIST CHECKED Light maring SECTION DATE 9-6-97 PROD DATE 10-6-97 PROD DATE 10-6-97 DATE 10-6-97 PROD DATE 10-6-97 PROD DATE 10-6-97 DATE 10-6-97 PROD DATE 10-6-97 DATE		7 CHECKED & Siammaring SECTION 7 DATE 9-6-97 PROD 1 1 1 1 1 SSUED SECTION			
ITEM	ING NO. PART NO.	DESCRIPTION	M8285		REF DESIGNATION	
19	1912693	I.C. DEC 25S1Ø	9		E25,E26,E35,E45,E47,E60,E61,E73,E74	
20	1912586	I.C. DEC 85S69	16		E3, E4, E5, E6, E7, E17, E18, E20, E21, E23, E24, E33, E55, E56, E57, E58	
21	1913888-00	I.C. DEC DC1Ø2	3		E117,E118,E130	
22	1913294	I.C. DEC 93S16	1		E128	
23	1911402	I.C. DEC 10105	1		E16	
24	1911403	I.C. DEC 10106			E15	
25	1911415-01	I.C. DEC 10125-1	3		E28,E29,E30	
26	1913220-00	I.C. DEC 10216	1		E14	
27	1911413	I.C. DEC 10121	1		E1	
28	1301972	RESISTOR, 270 OHM, 1/4W, 5%	6		R1, R3, R5, R7, R9, R40	
29	1301890	RESISTOR, 560 OHM, 1/4W 5%	6		R2, R4, R6, R8, R10, R41	
30	1.300295	RESISTOR, 330 OHM, 1/4w, 5%	13		R]5 thru R20,R29 thru R35	
31	1300247	RESISTOR, 120 OHM, 1/4w, 5%	8		R11, R12, R25, R26, R27, R28, R36, R37	
32	1300250	RESISTOR, 150 OHM, 1/4W, 5%	8		R13, R14, R21, R22, R23, R24, R38, R39	
33	1012084-01	CAPACITOR, 8 uf, 25 V	7		C3 thru C9	
34	10 127 84	CAPACITOR, .047 uf, 50 V	55		C1,C2,C10 thru C56,C62,C59,C60,C61	
35	12 107 11 - 02	HANDLE				
36	9000024-01	EYELETS	12			
37		SPARE ICS	3		E13, E27, E32	
CORPORATION AND SHAL AS THE BASIS FOR THE MA	CIFICATIONS, HEREIN, ARE THE PROPERTY LL NOT BE REPRODUCED OR COPIED OR USE ANUFACTURE OR SALE OF ITEMS WITHOUT GITAL EQUIPMENT CORPORATION"	D IN WHOLE OR IN PART	ON NORMALIZER	ASSY NO. E-UA-M8285-Ø-Ø SHEET 2. OF	SIZE CODE NUMBER REV. B PL M8285-Ø-Ø ** INSERTION PARTS LIST DATA BASE REV. A	

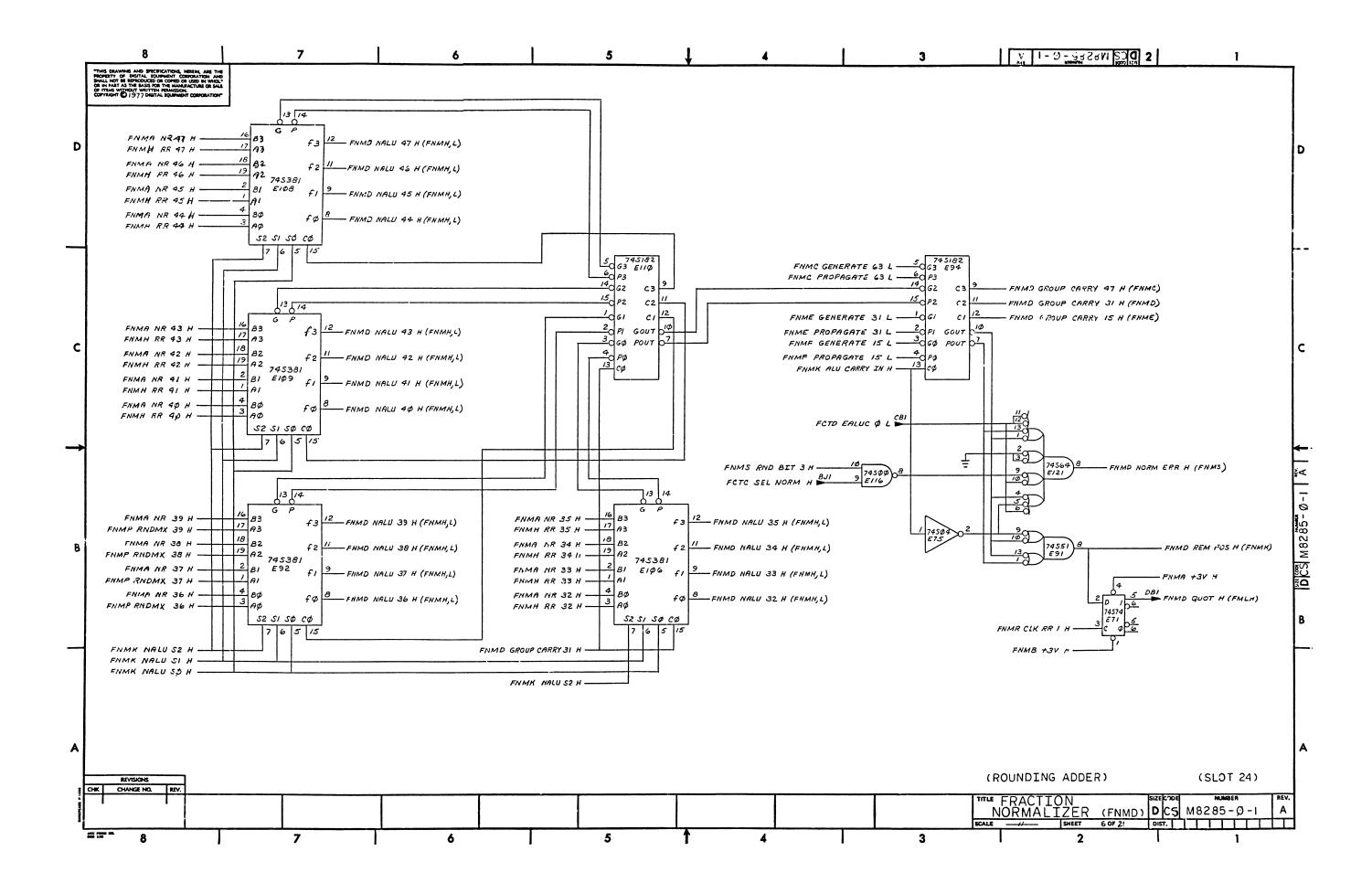


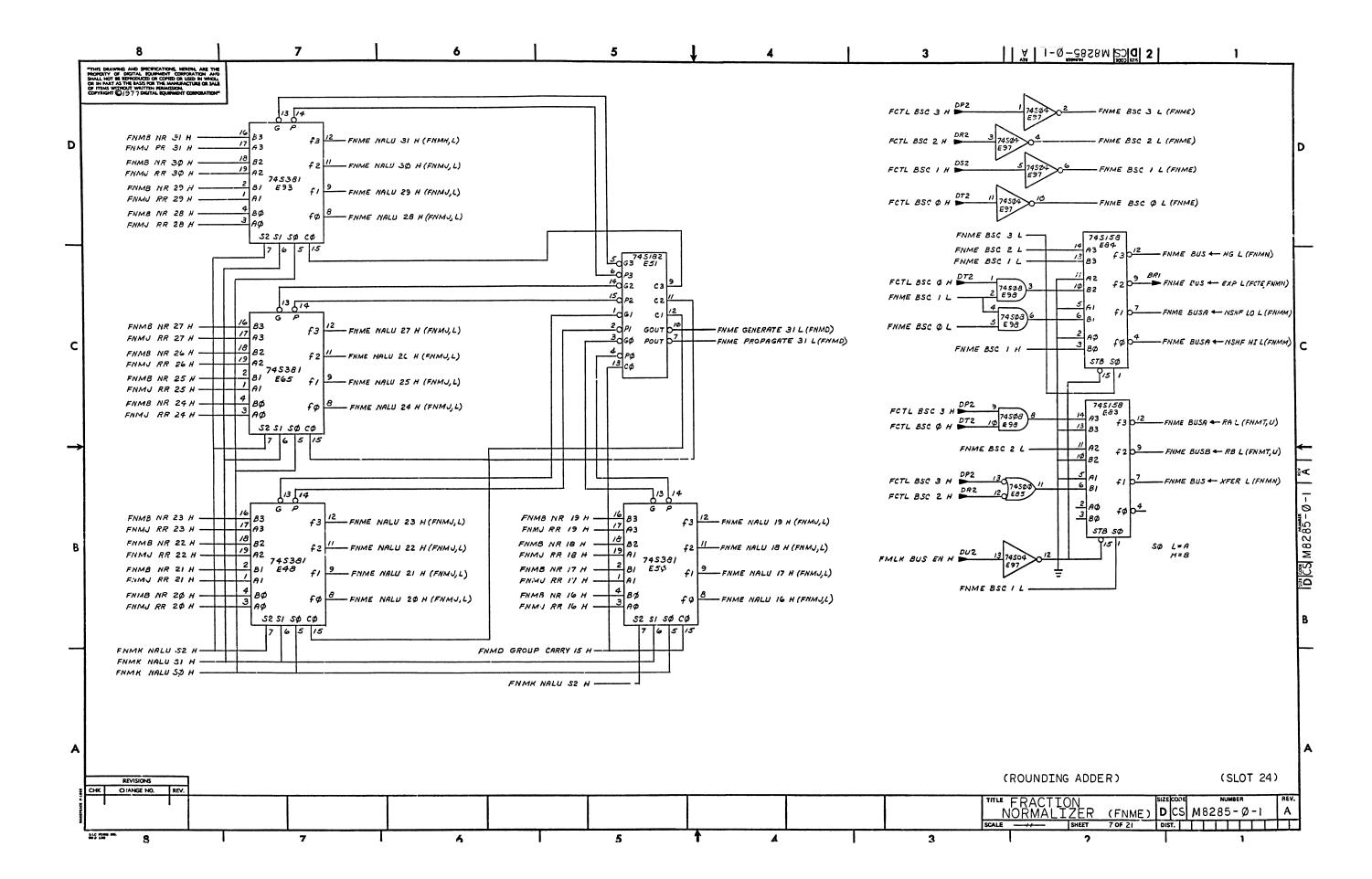


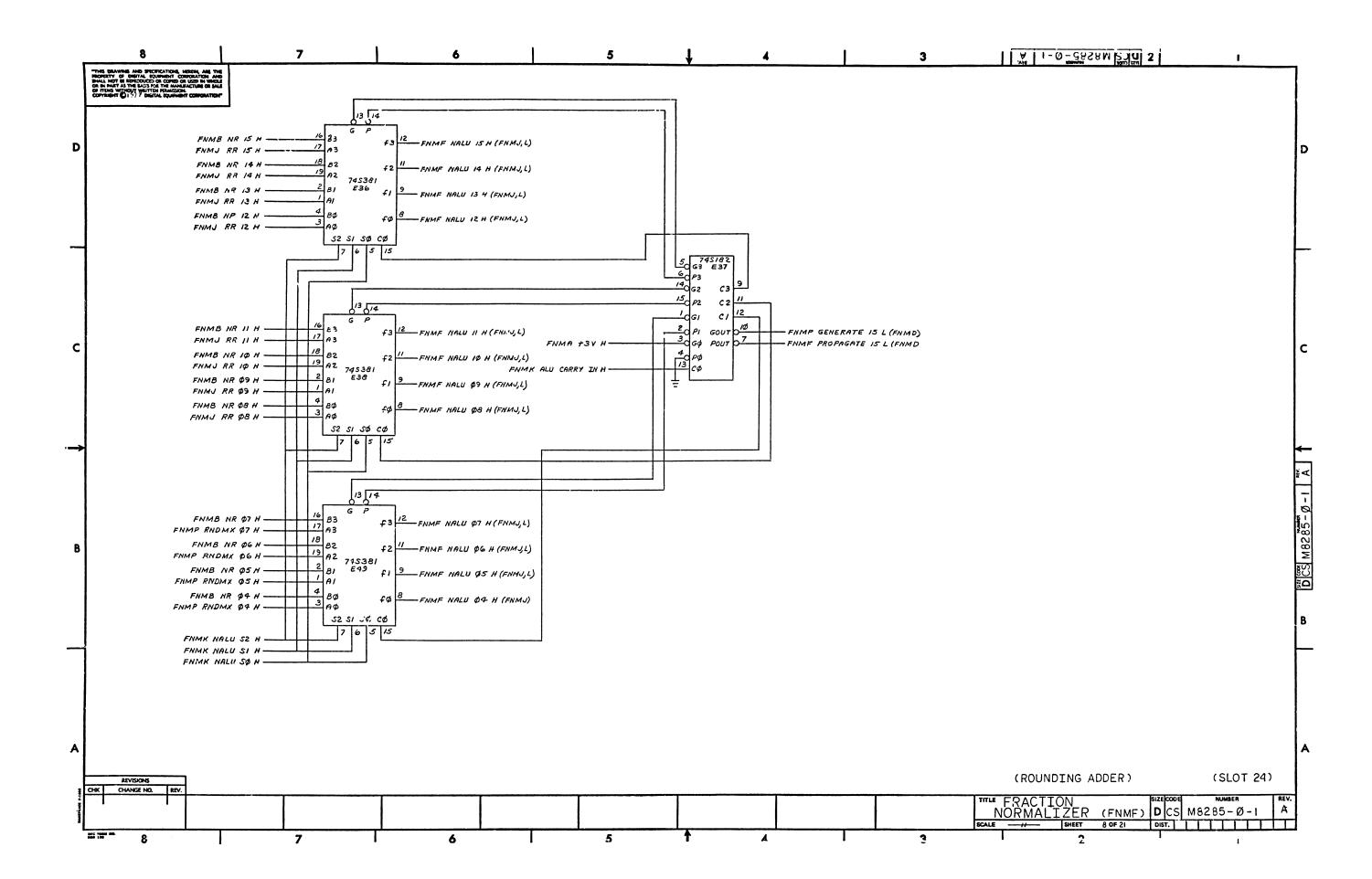


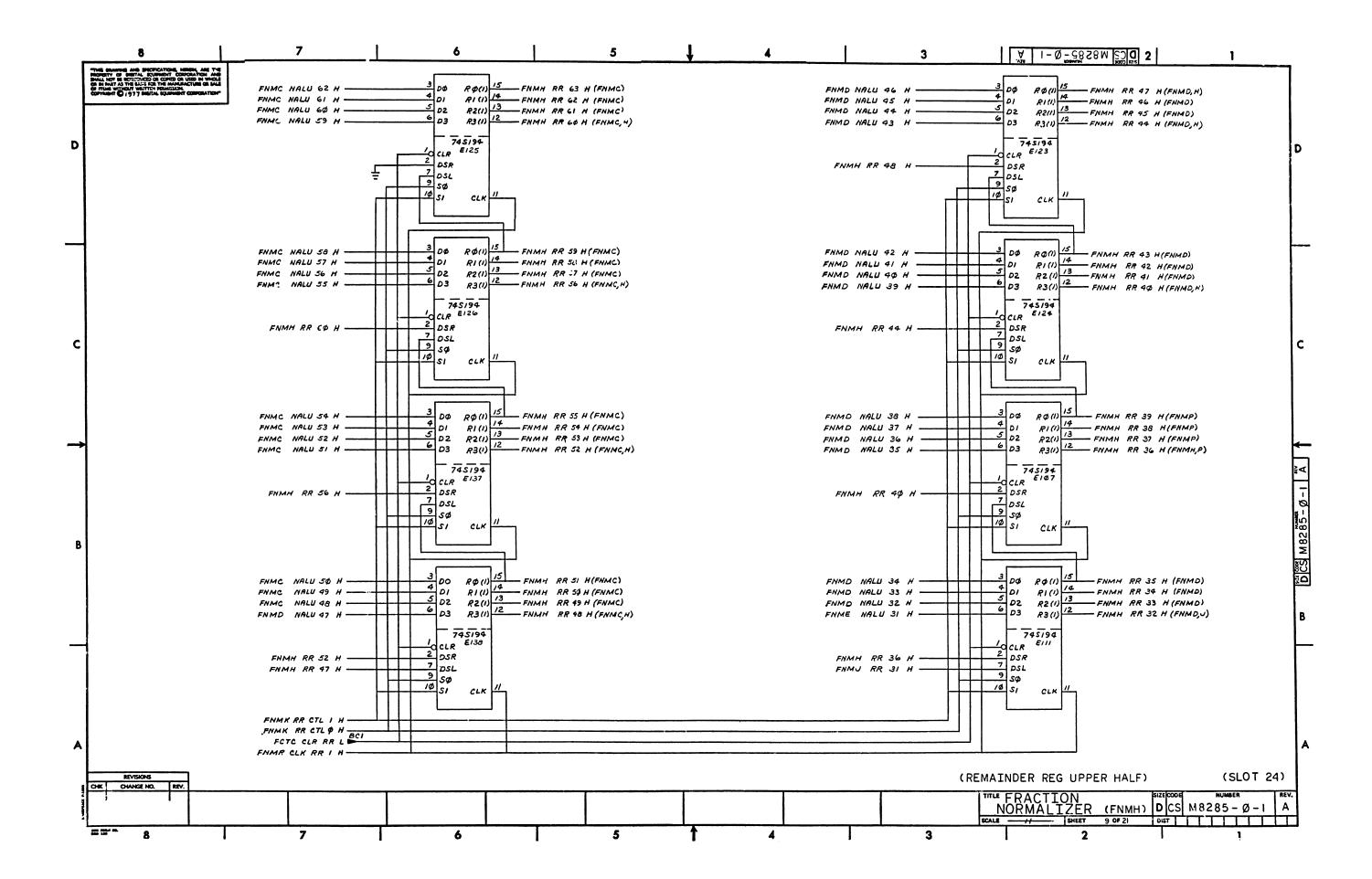


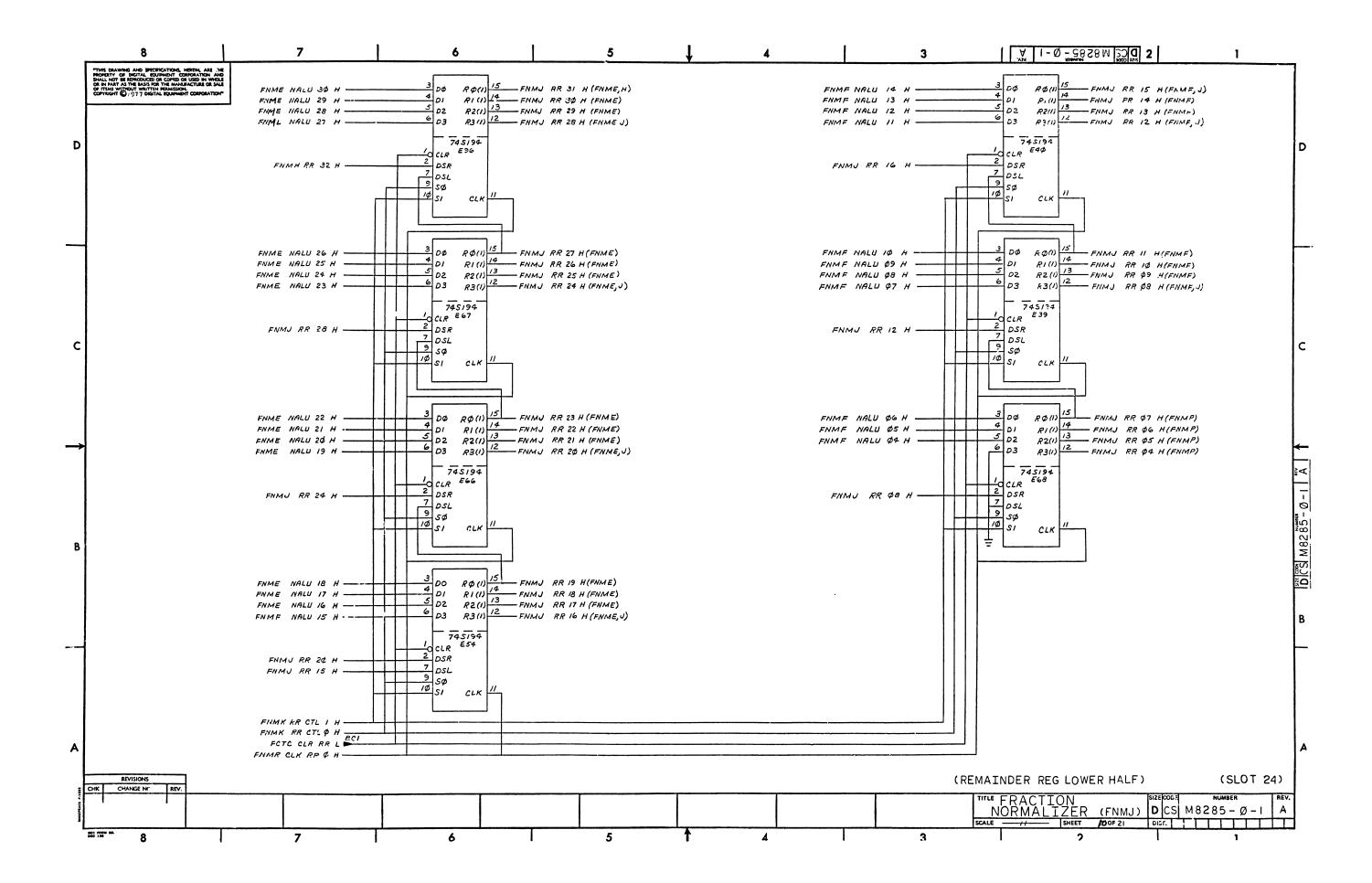


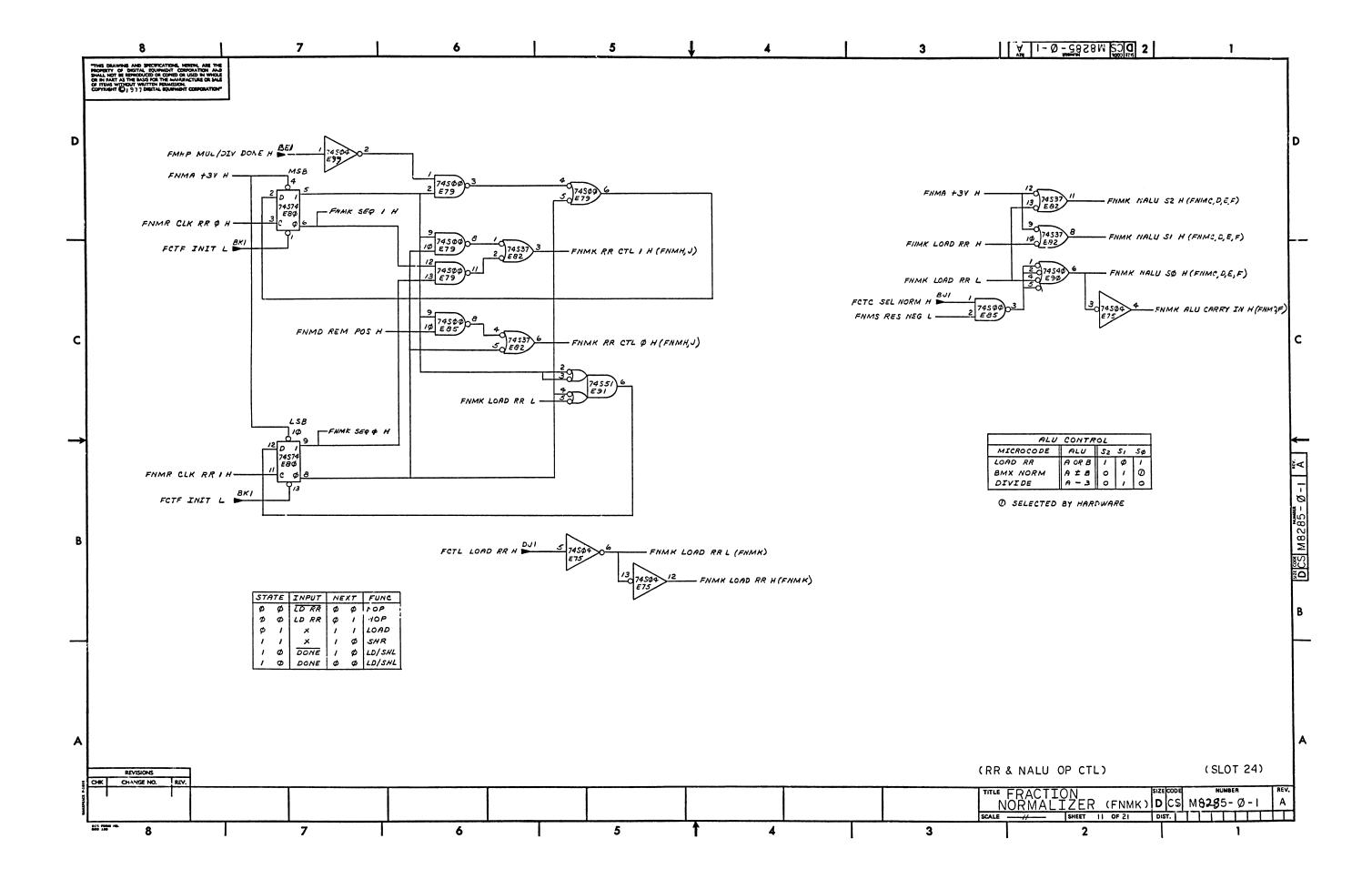


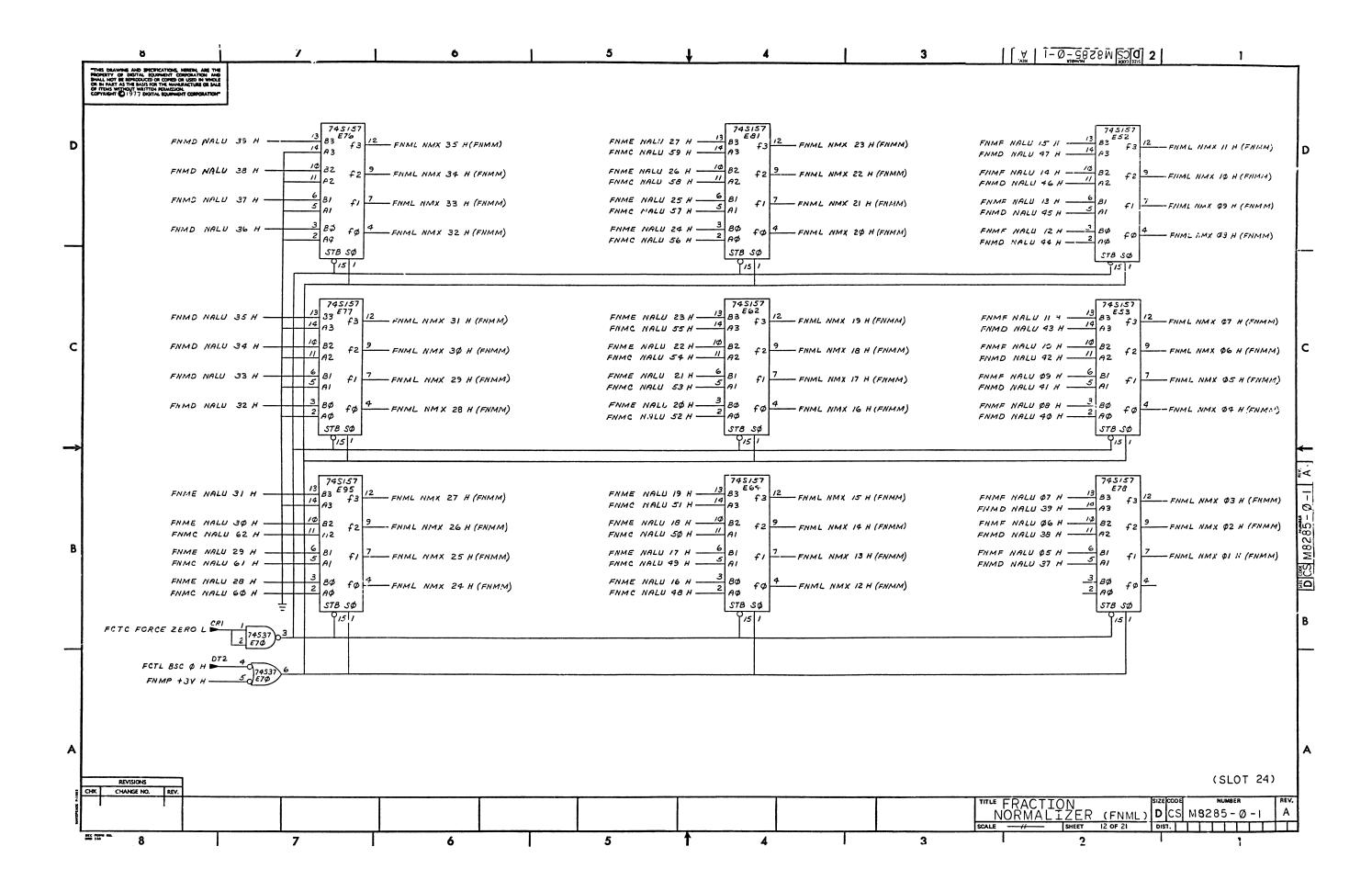


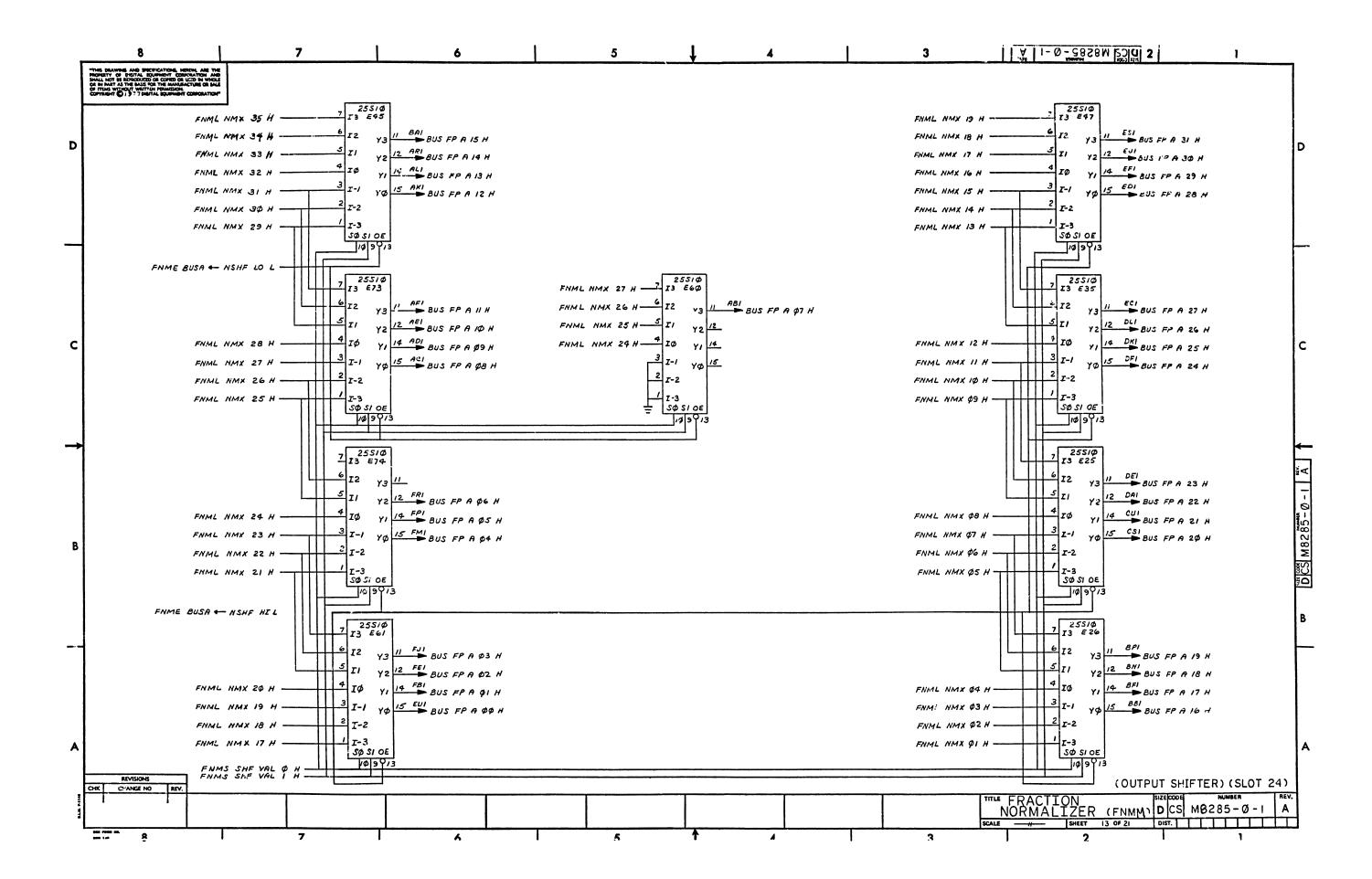


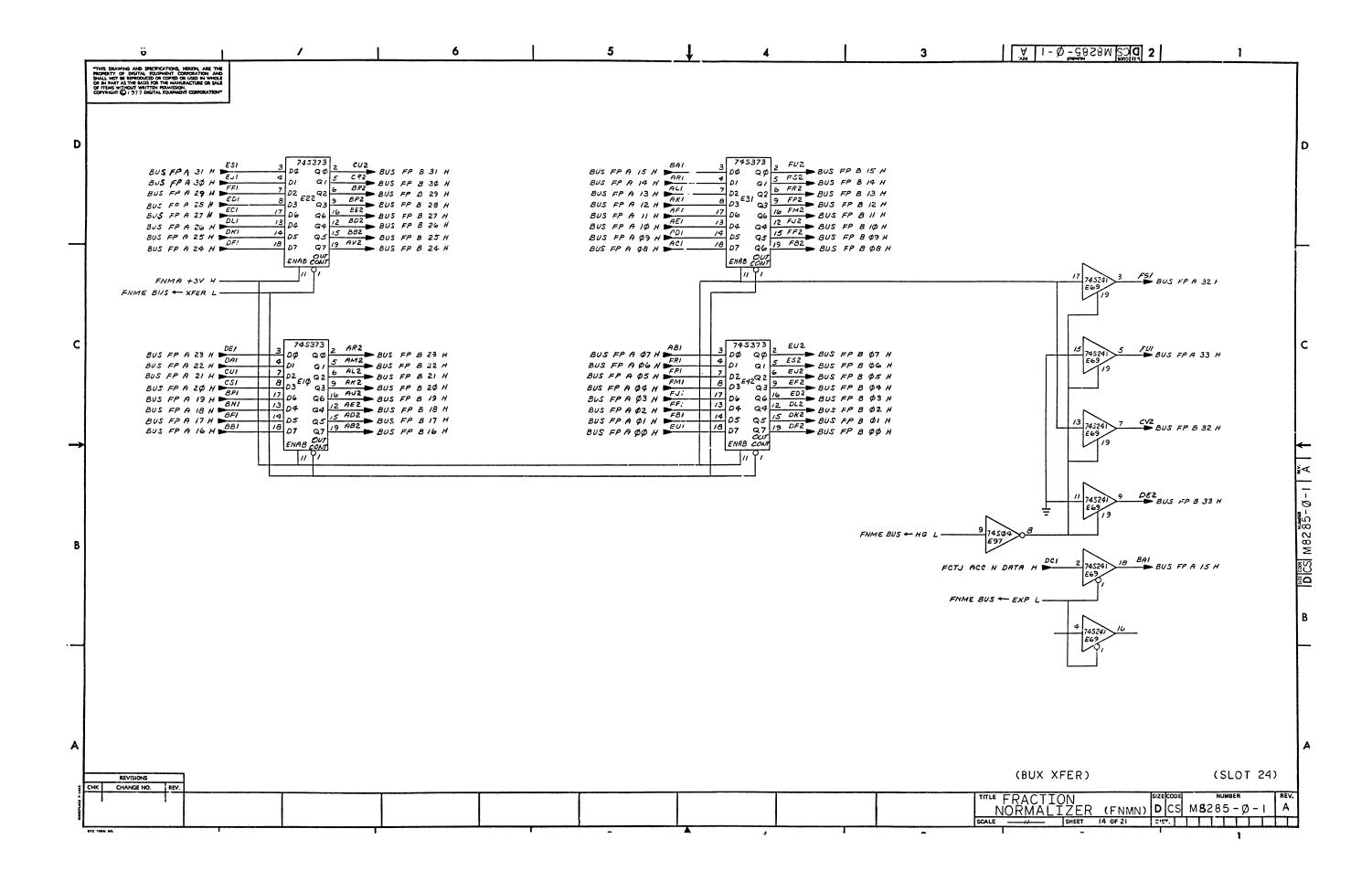


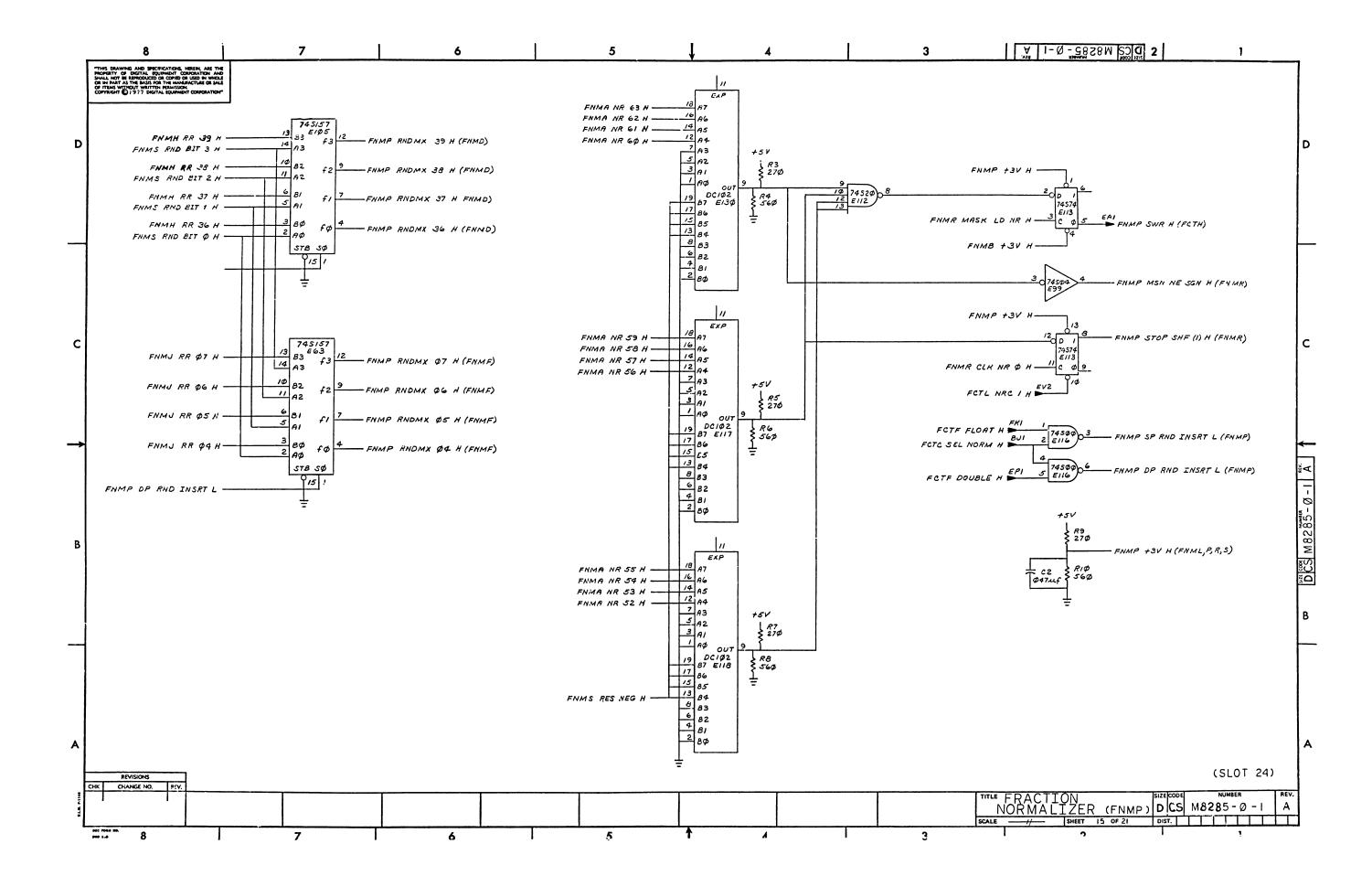


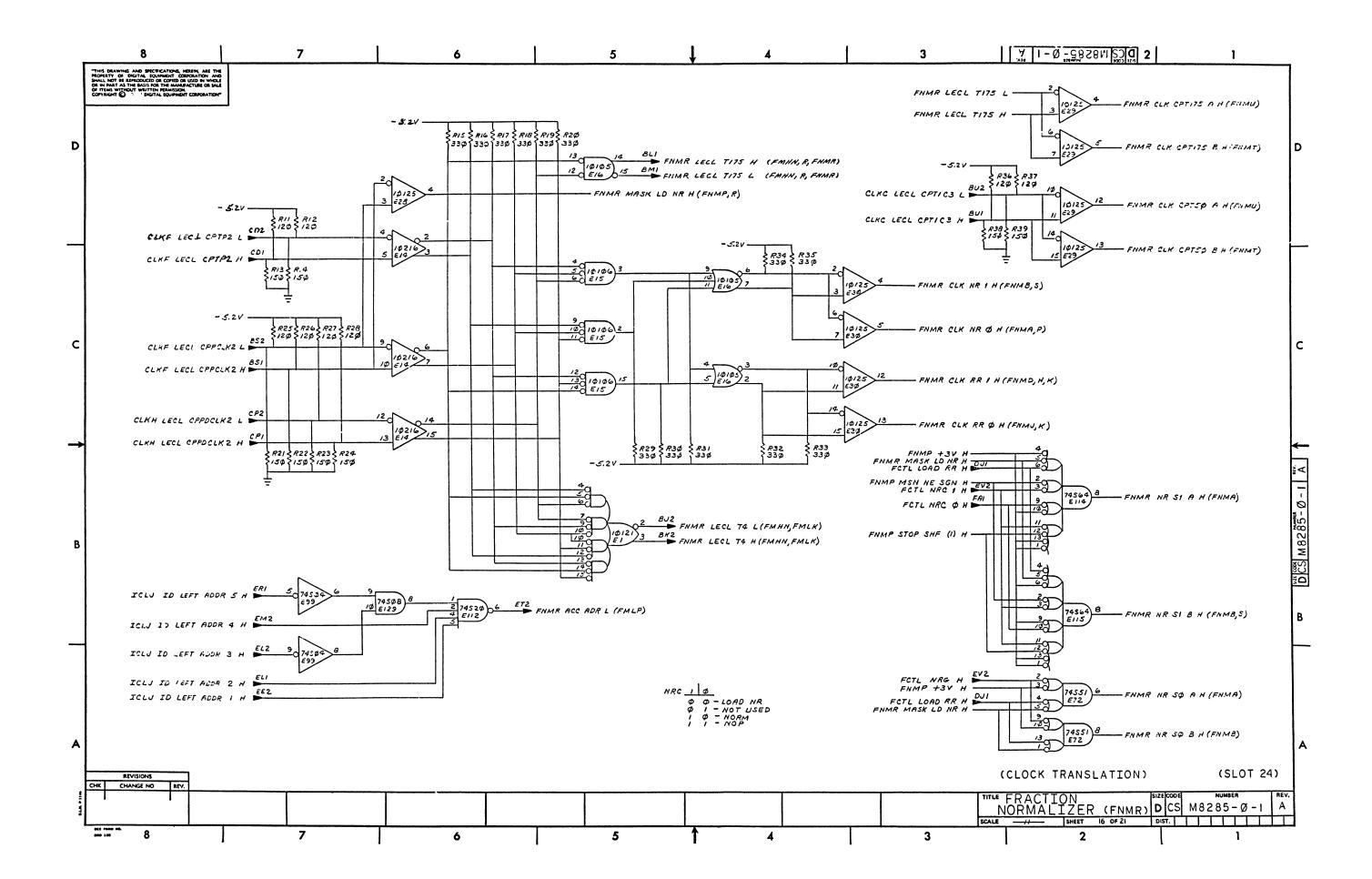


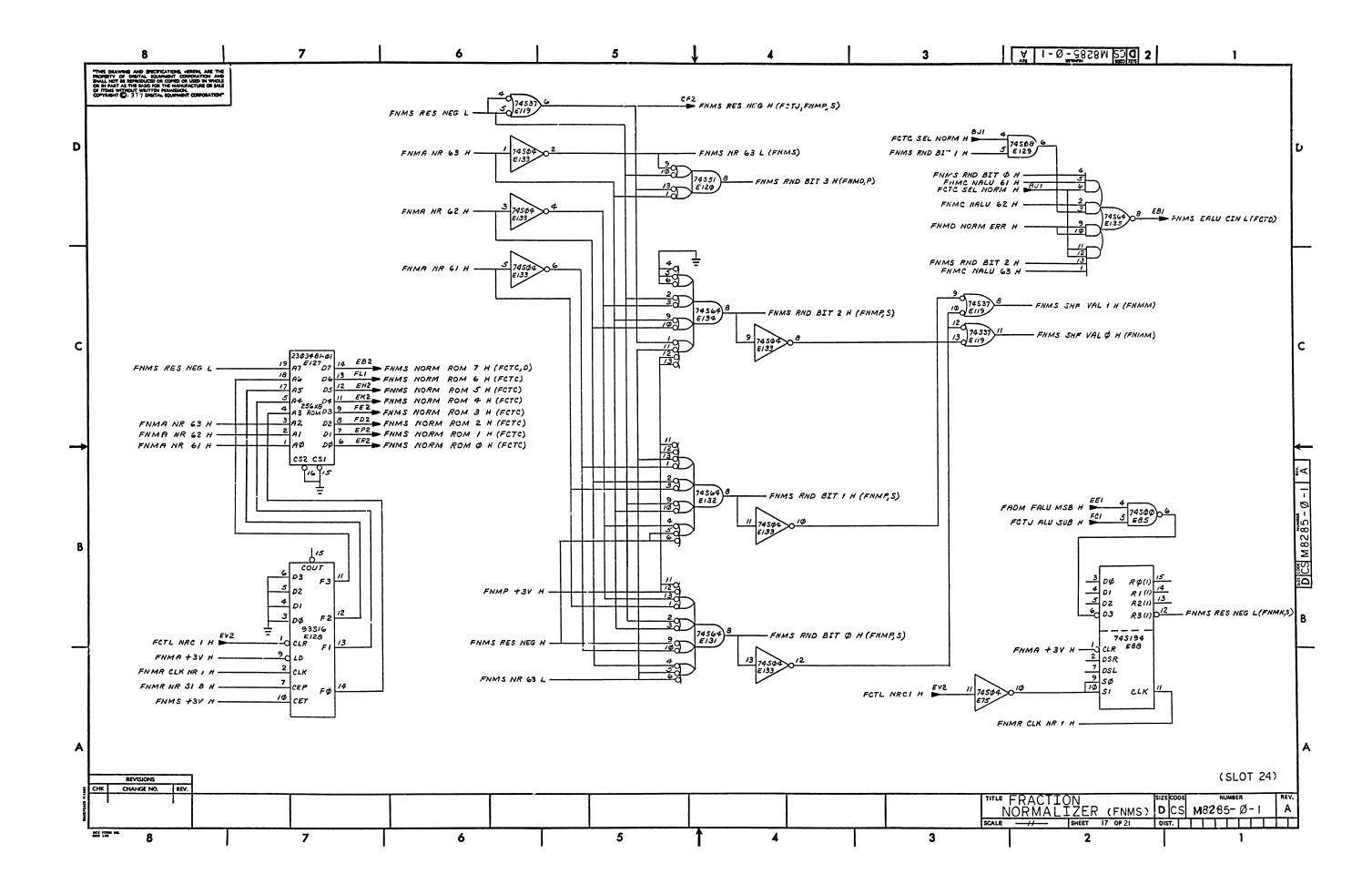


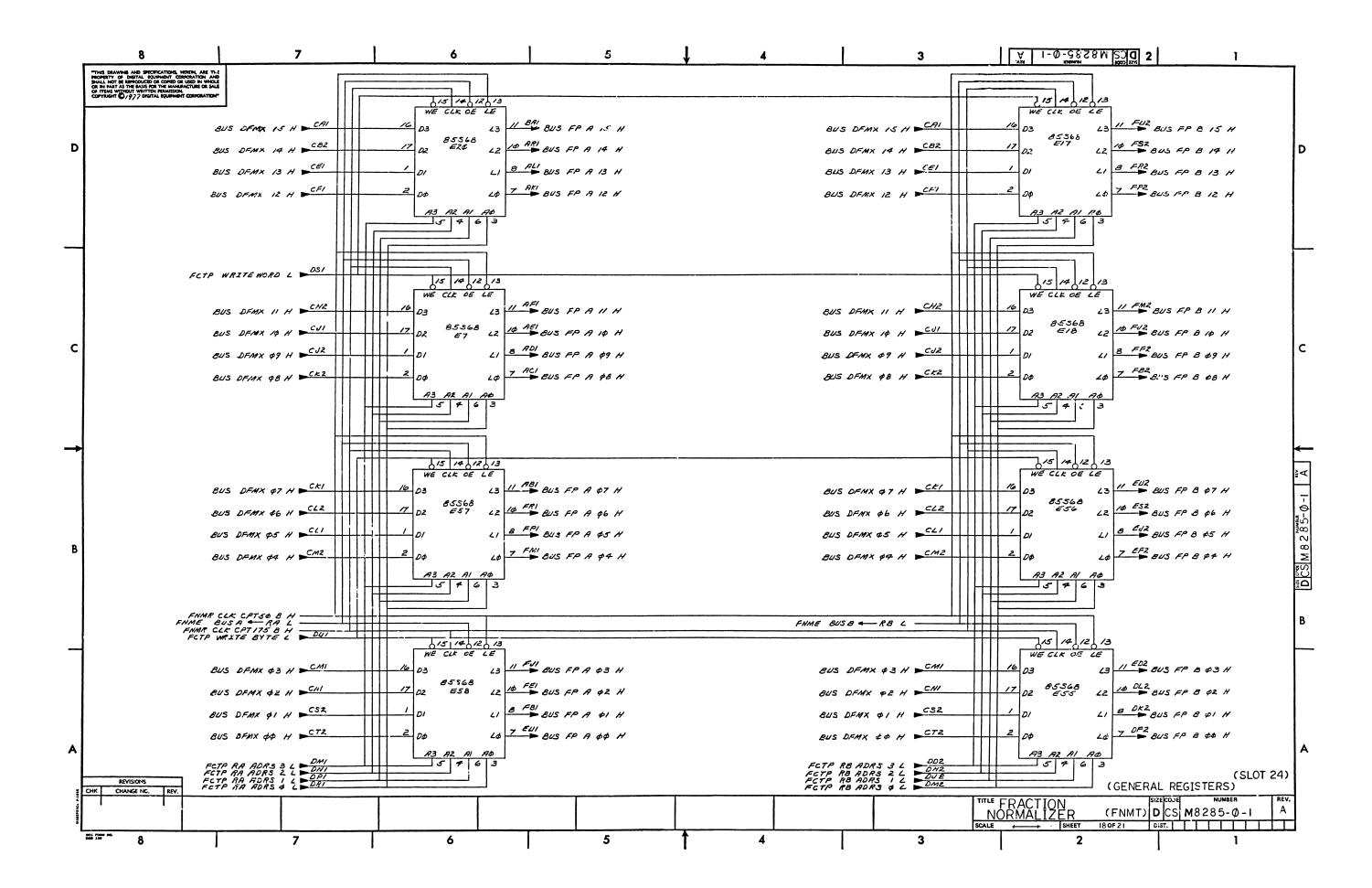


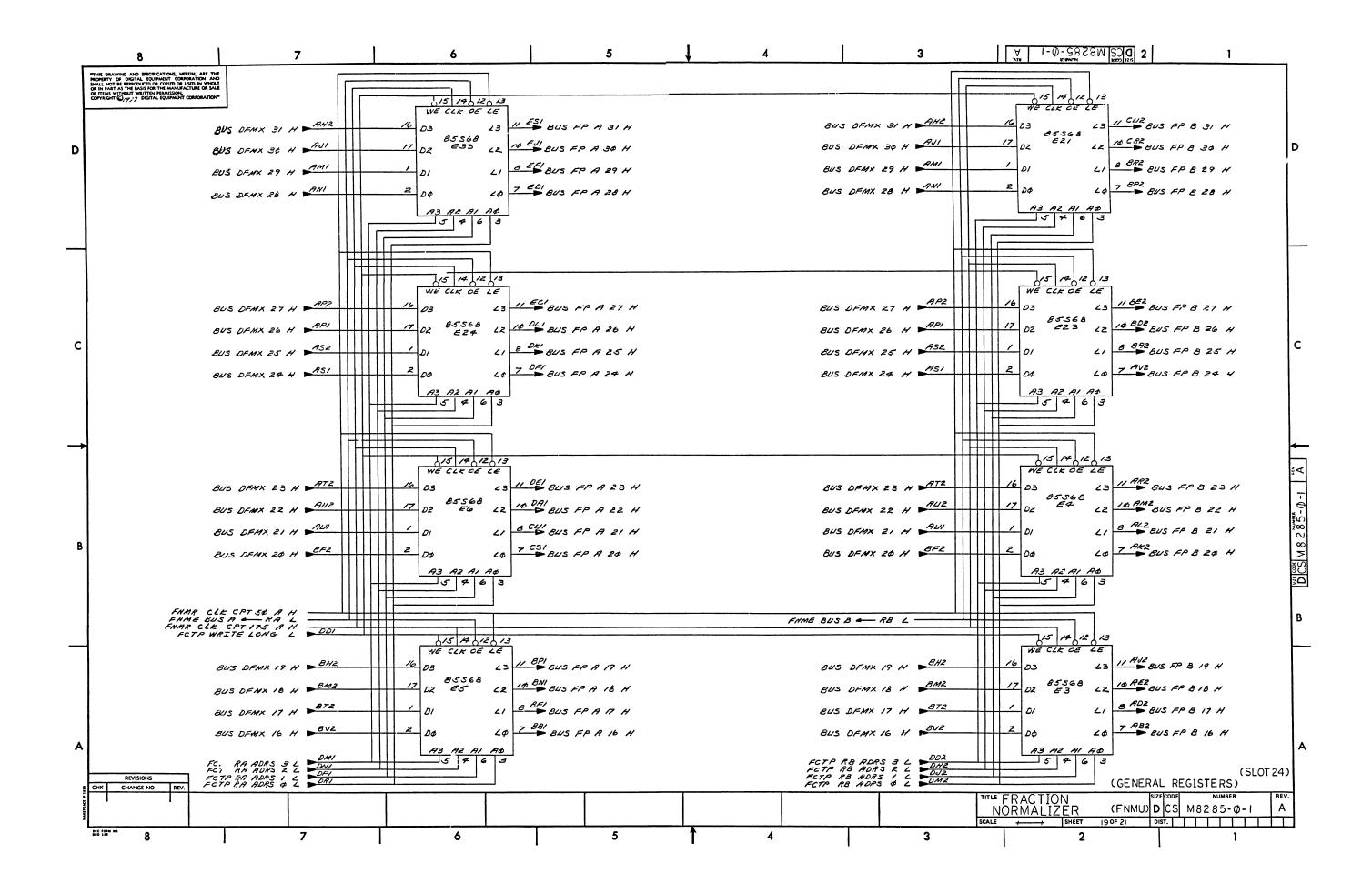


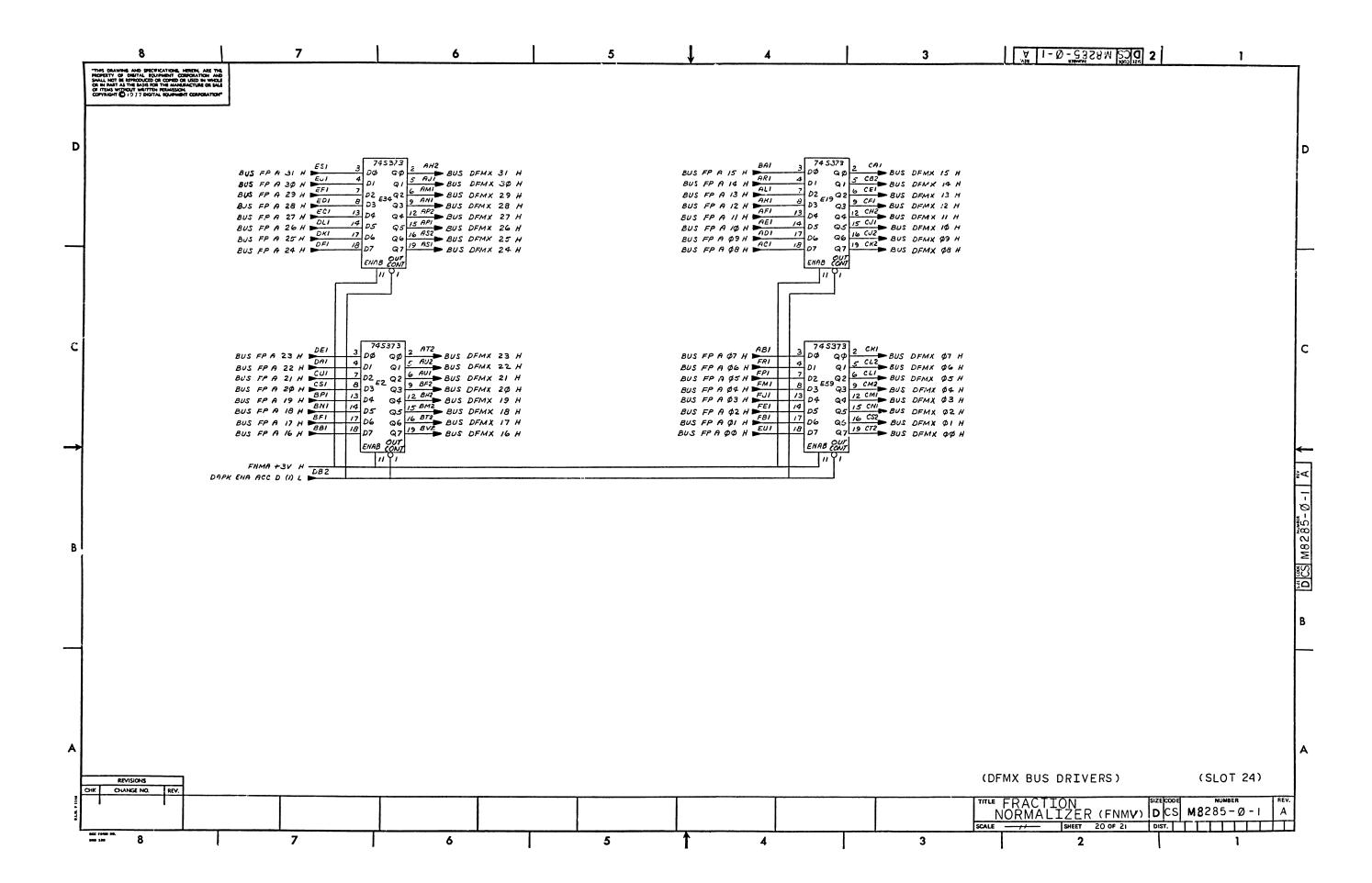


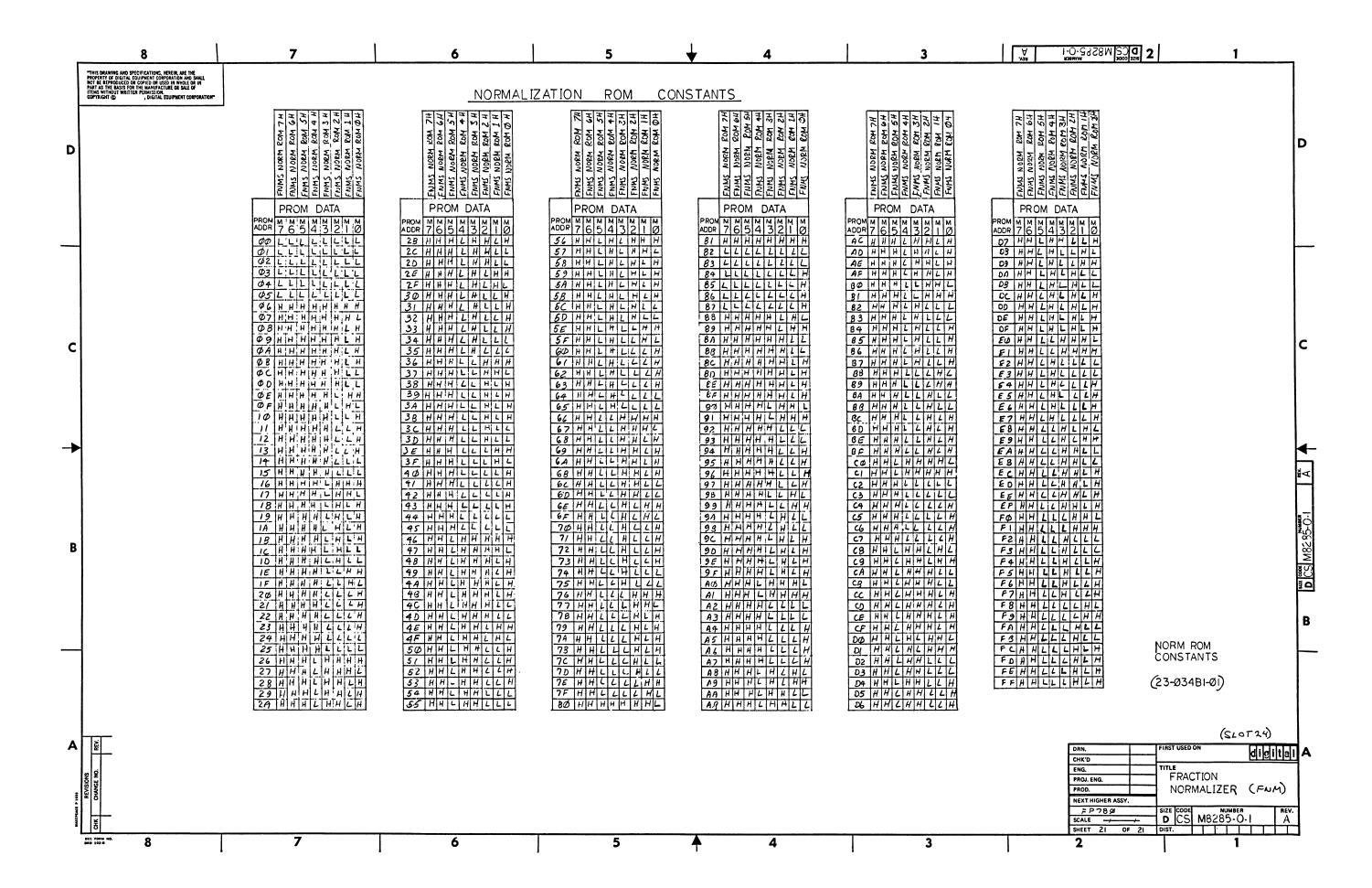


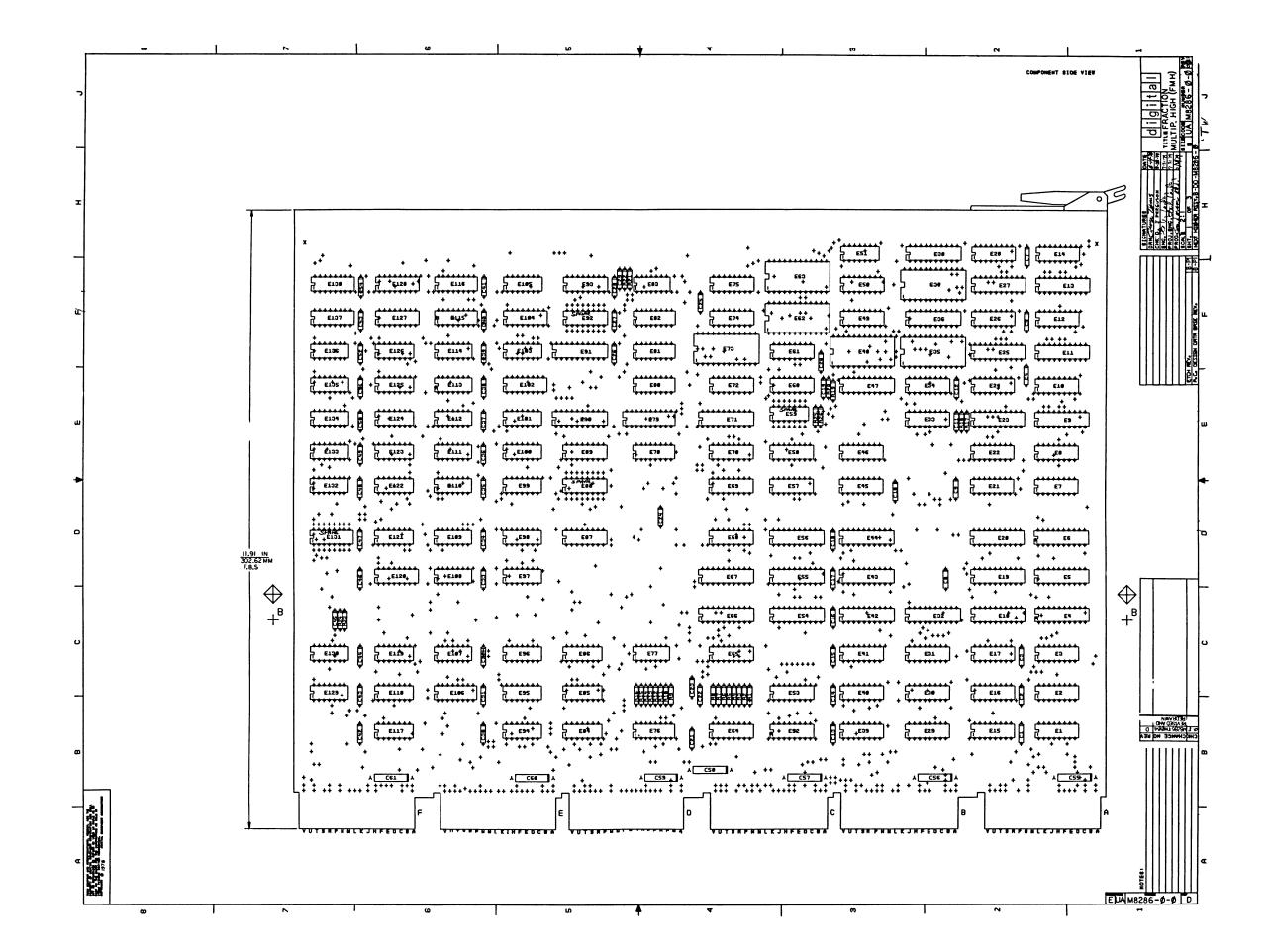


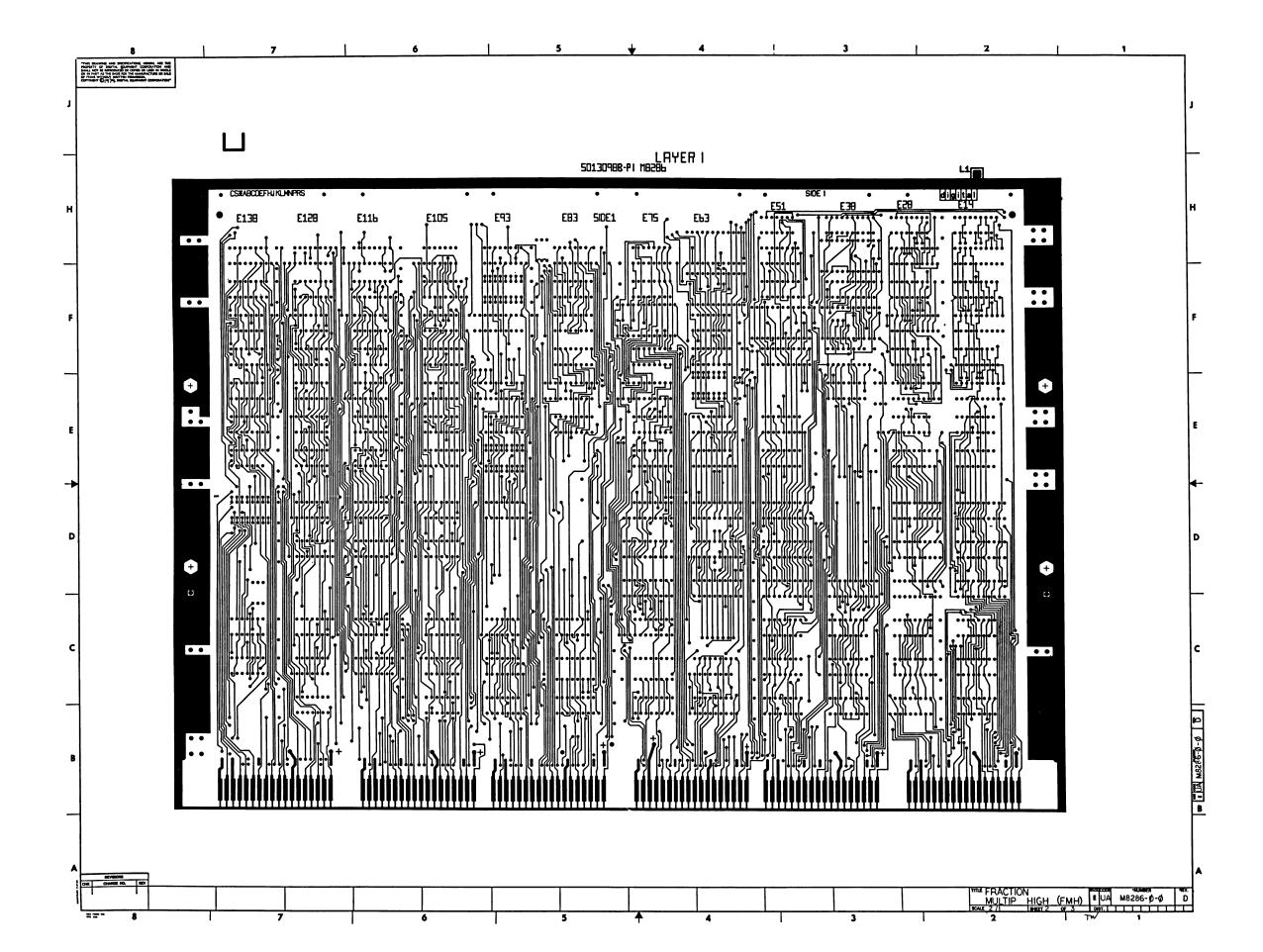


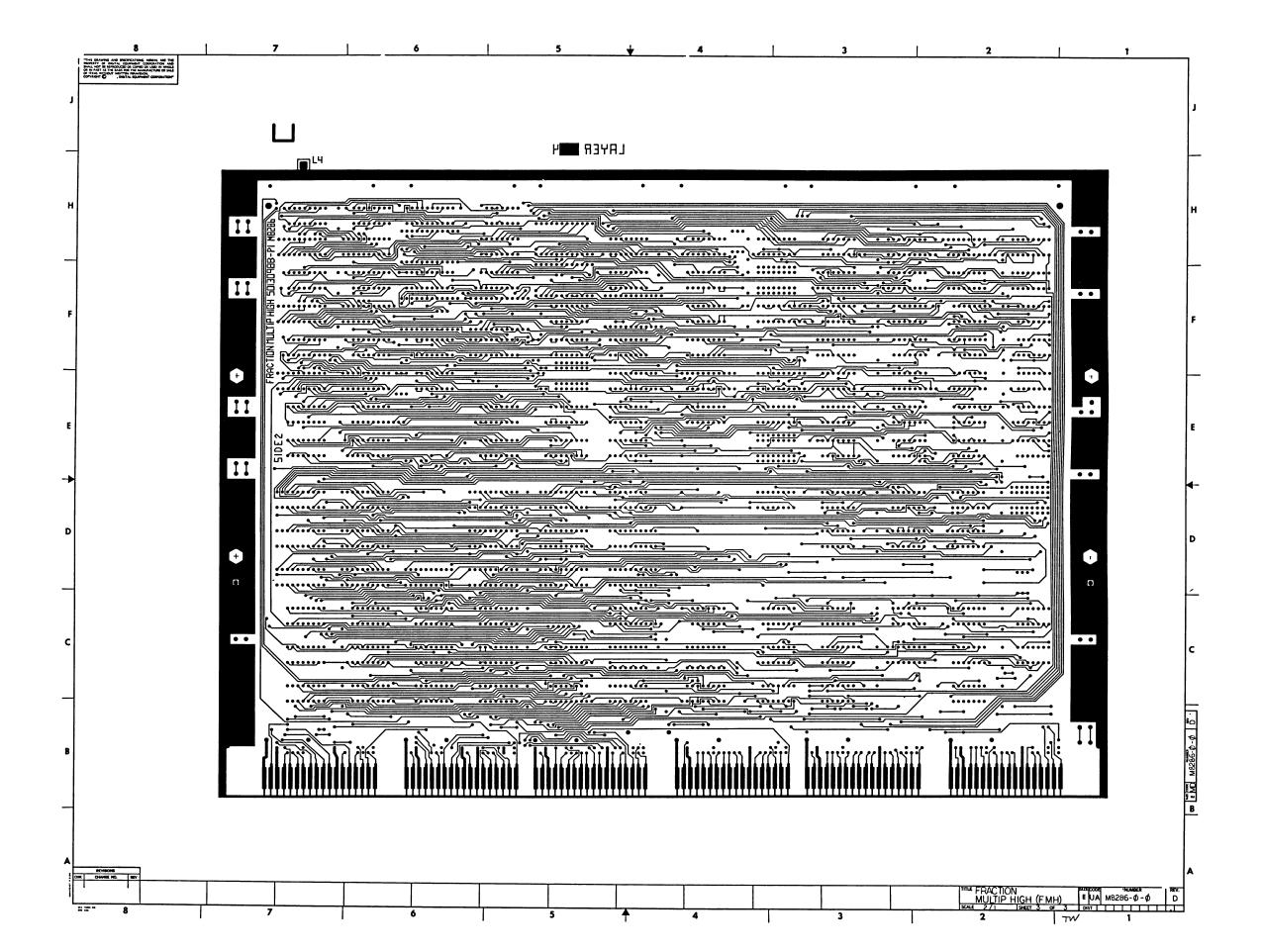












SN 74S257 MUX, QUAD 2 TO 1

74S151 MUX 1 OF 8

DEC 748181 ALU-4BIT

748381 ALU-4BIT

B1-01 OR CUSTOM MASKED ROM (7452

745157 MUX 1 OF 2 (QUAD)

748374 FF-D OCTAL TRISTATE

10125 ECL TO TTL TRNSLTR

748241 OCTAL BUFFER, TRI-STA

74502 NOR GATE-QUAD 21N, PO

SN 74S182 LOOK AHD CARRY GEN

74SØ8 AND GATE-QUAD 2IN, PO

745373 LATCH SBIT TRASP TR

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		1 1 1	[J] [K] [L]			IMFG.ENG.:	MIKE TERELLA	IDATE:	21-0CT-77	! K !	PL !	M828	6-0-DB	P	ם ! -	
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E3,E17,E31,E41,E65,E68,E69

E9,E11,E13,E23,E25,E27

E35, E37, E48, E62, E63, E73

E10,E12,F14,E24,E26,E28

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CONT E104, F120

E4, F5, E6, F19, F18, E20, E32, E42,

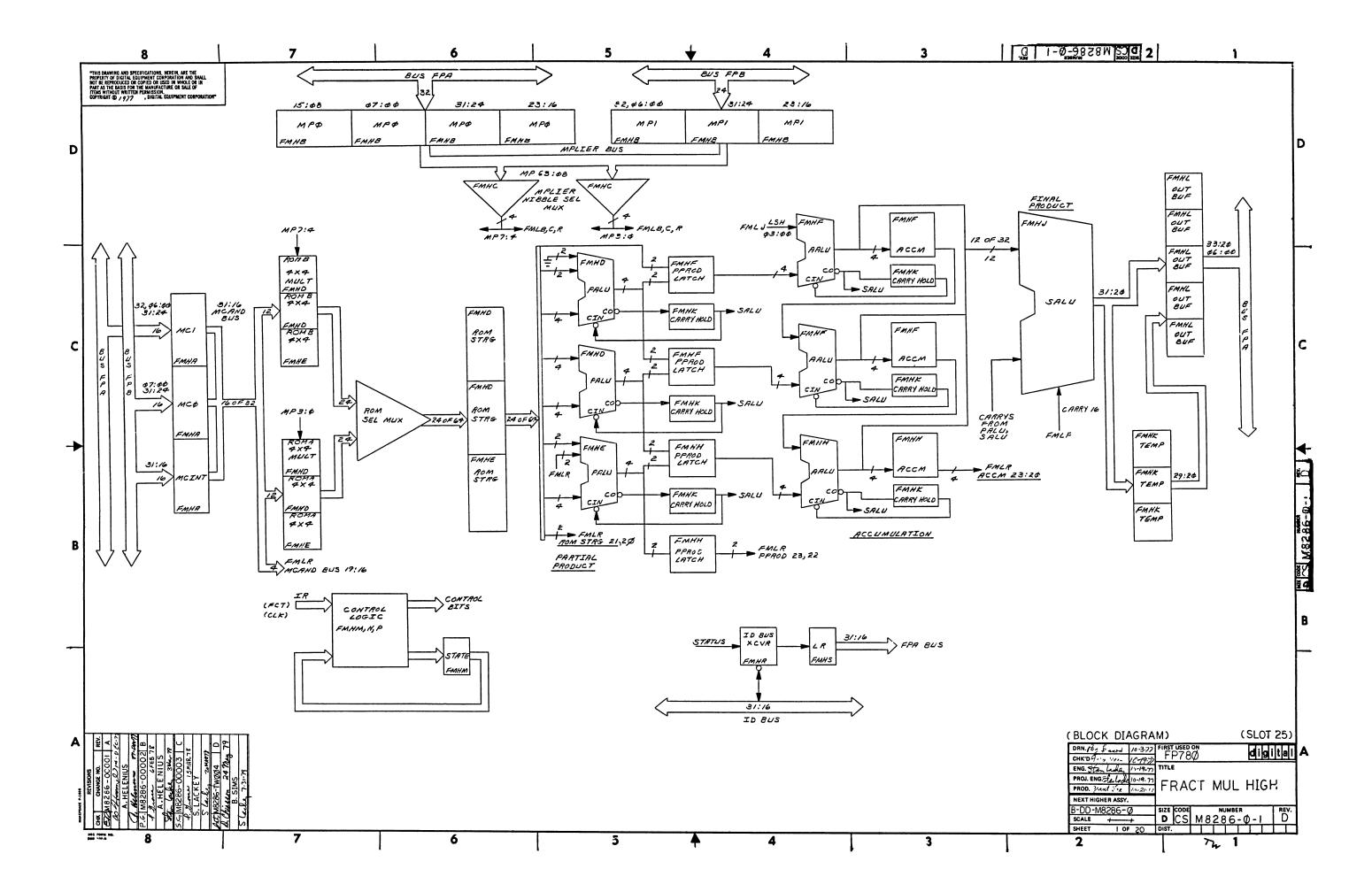
£7,E8,E21,E22,E45,E46,E57,E58,

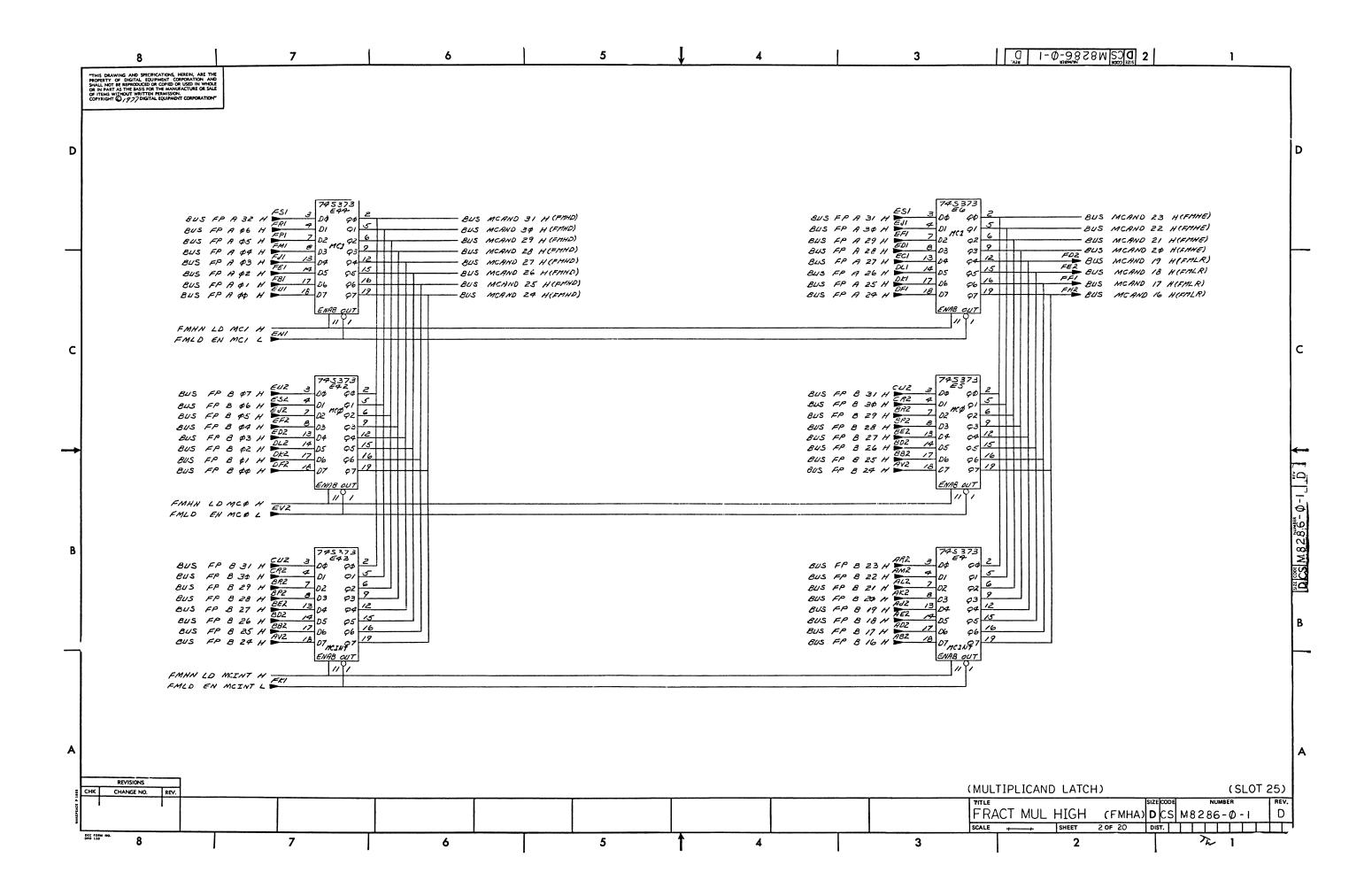
AUTOM	ATED	BY PRTLST.1C(3)		PARTS LIST	QTY PER VAPIATIO	SHEET A2 OF A2
LINF	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	OU PER VARIATIO	REFFRENCE DESIGNATOR
27	27		1910536-90	74S10 MAND GATE-TRIPLE 3IN	4	E94,6114,6124,6135
28	28	D C BALK	1910532=00	74800 NAND GATE-OUAD 2INS	2	E95.E126
29 30	29 30	BLANK	1910651-00 1910542-00	*** THIS ITEM IS NOT USED *** 74864 A=0=I GATE 4=2=3=2	9 CONT	E99.E108,E109,E112.E113.E122, E123,E129.E130
31	31		1912746=00	DEC 74837 NAND GATE-QUAD 2IN	3	E100, E132, E133
32	32		1910545=00	748112 FF-JK DUAL.EDGE TRTG	1	E1@2
33	33		1910544-00	74874 FF-D DUAL, EDGE TRIGG	1	E103
34	34		1916550=00	74S174 FF-D HEX	2	E106,E116
35	35		1911712-00	74S51 AND=OR GATE=INVERT D	3	E121, £111, £97
36	36		1910539=00	74S20 NAMO GATE-DUAL 4INPU	2	E125, E136
37	37		1911675=00	748138 DECODER/DEMUX 3-8 LITN	1	E129
38	38		1910541-00	74540 NAND GATE-DUAL 4IN, B	1	E134
39	39		1210711-02	HANDLE, MODULE, HEX	1	·
40	40		9000024-01	EYELET, ROLLFD FLANGE, .121 OD X	12	
41	41		1301972-00	270 1/4W 5% CC	8	R6, P8, R14, R15, R19, R22, R23, P17
42	42		1300309-00	390 1/4W 5% CC	1	R25
43	43		1301424-00	680 1/40 5% CC	1	F26

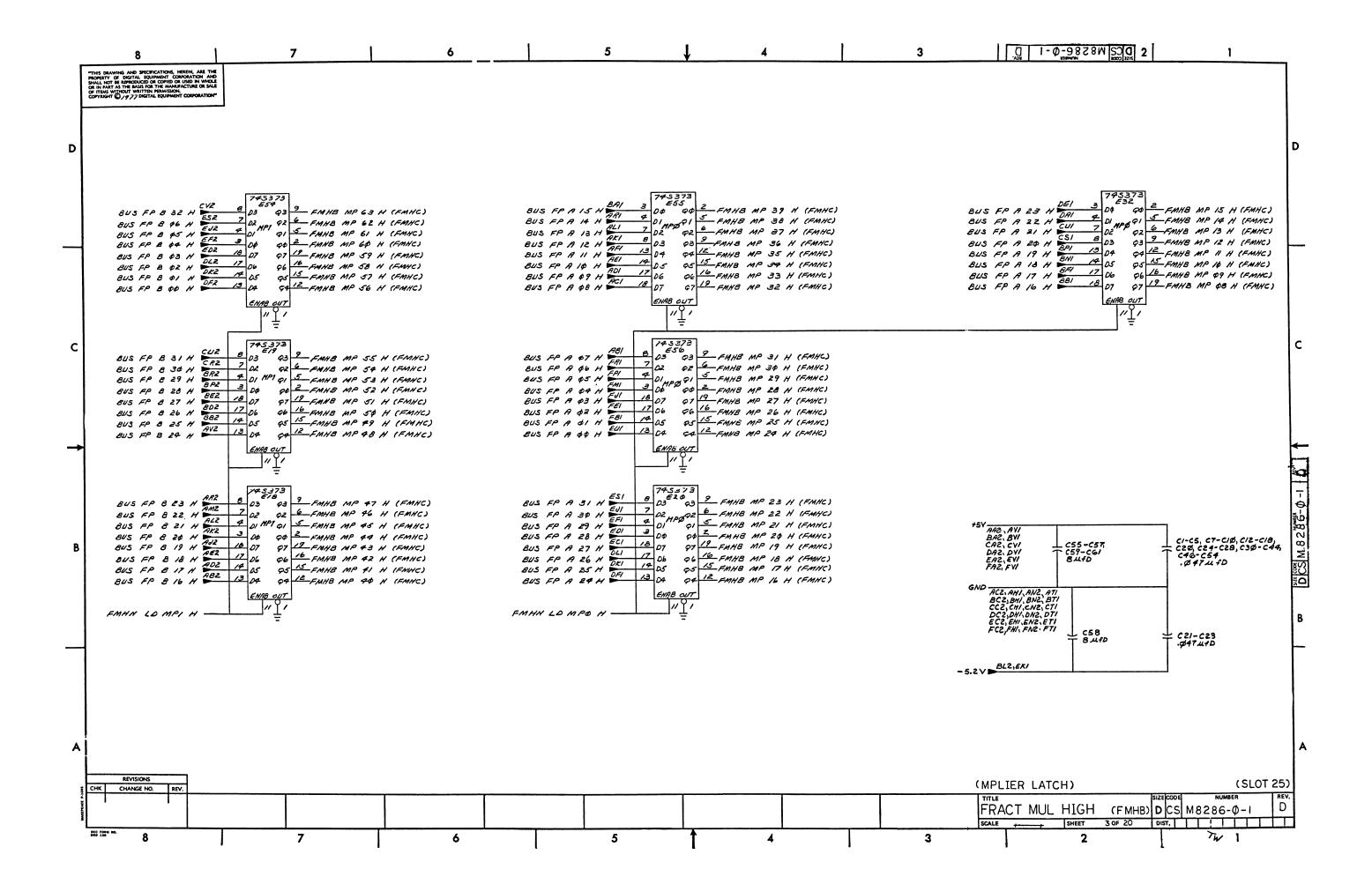
0 NOTE: IC SPARE LOCATIONS ARE E59, E131, E88, E92

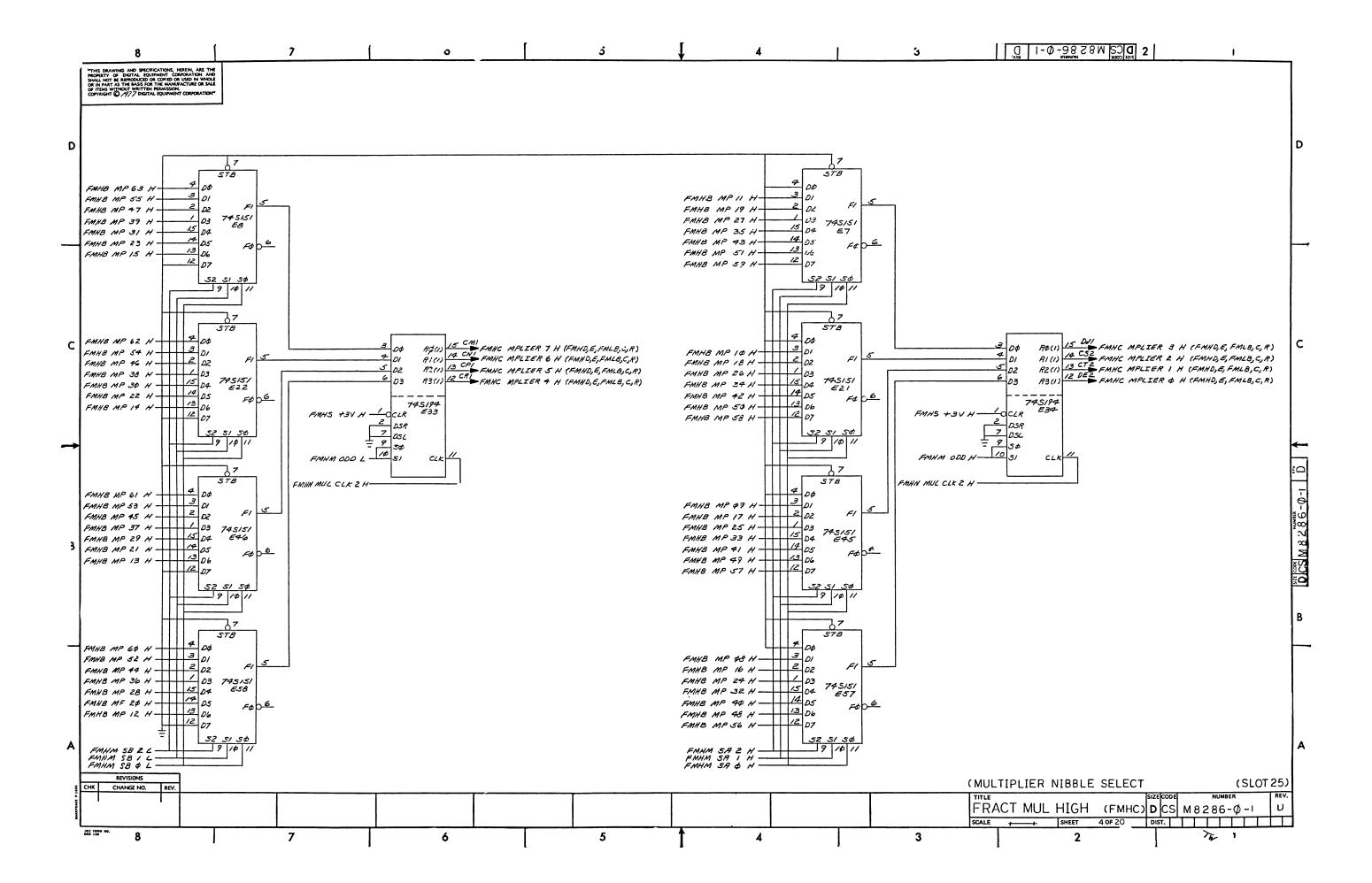
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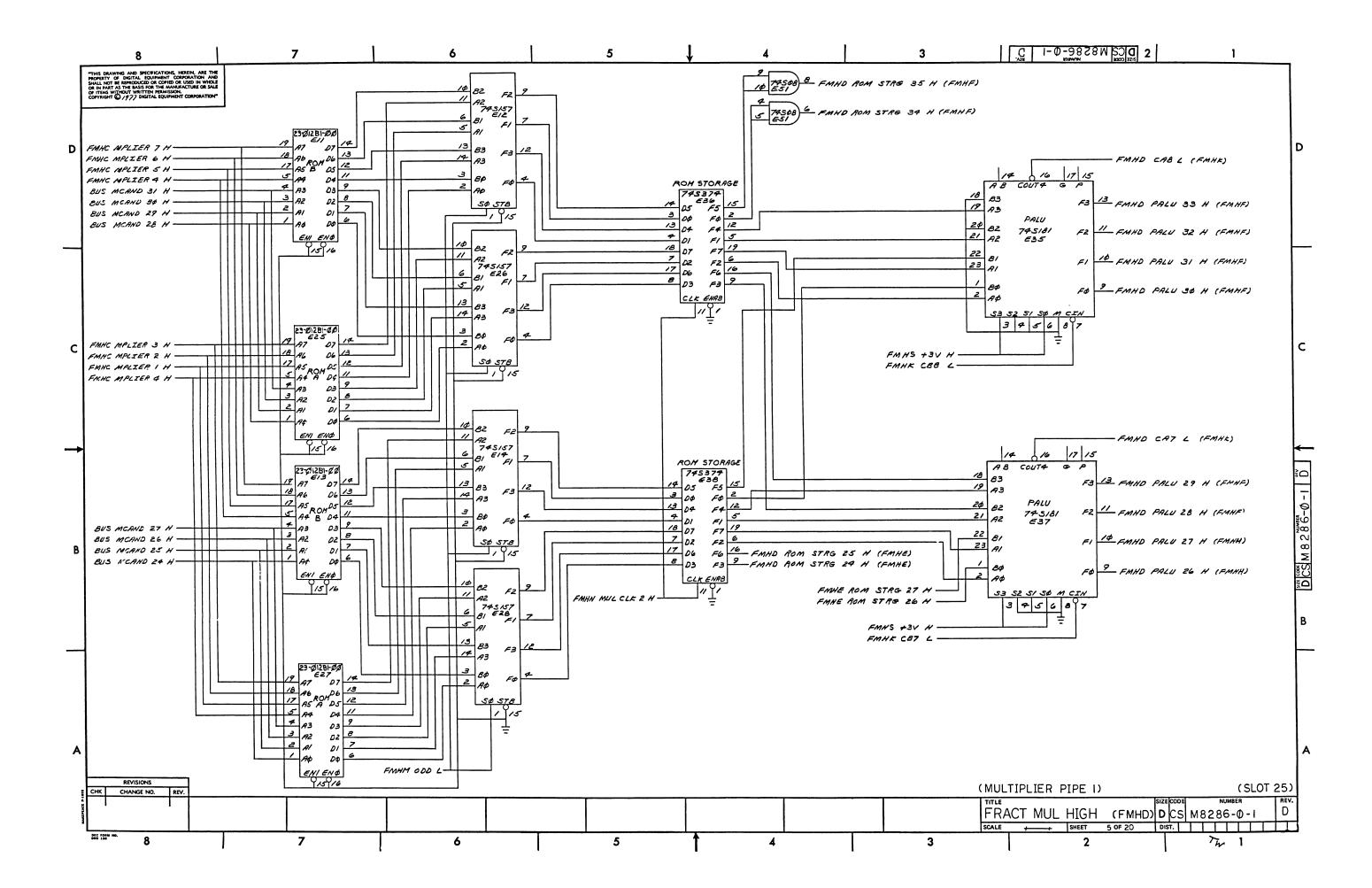
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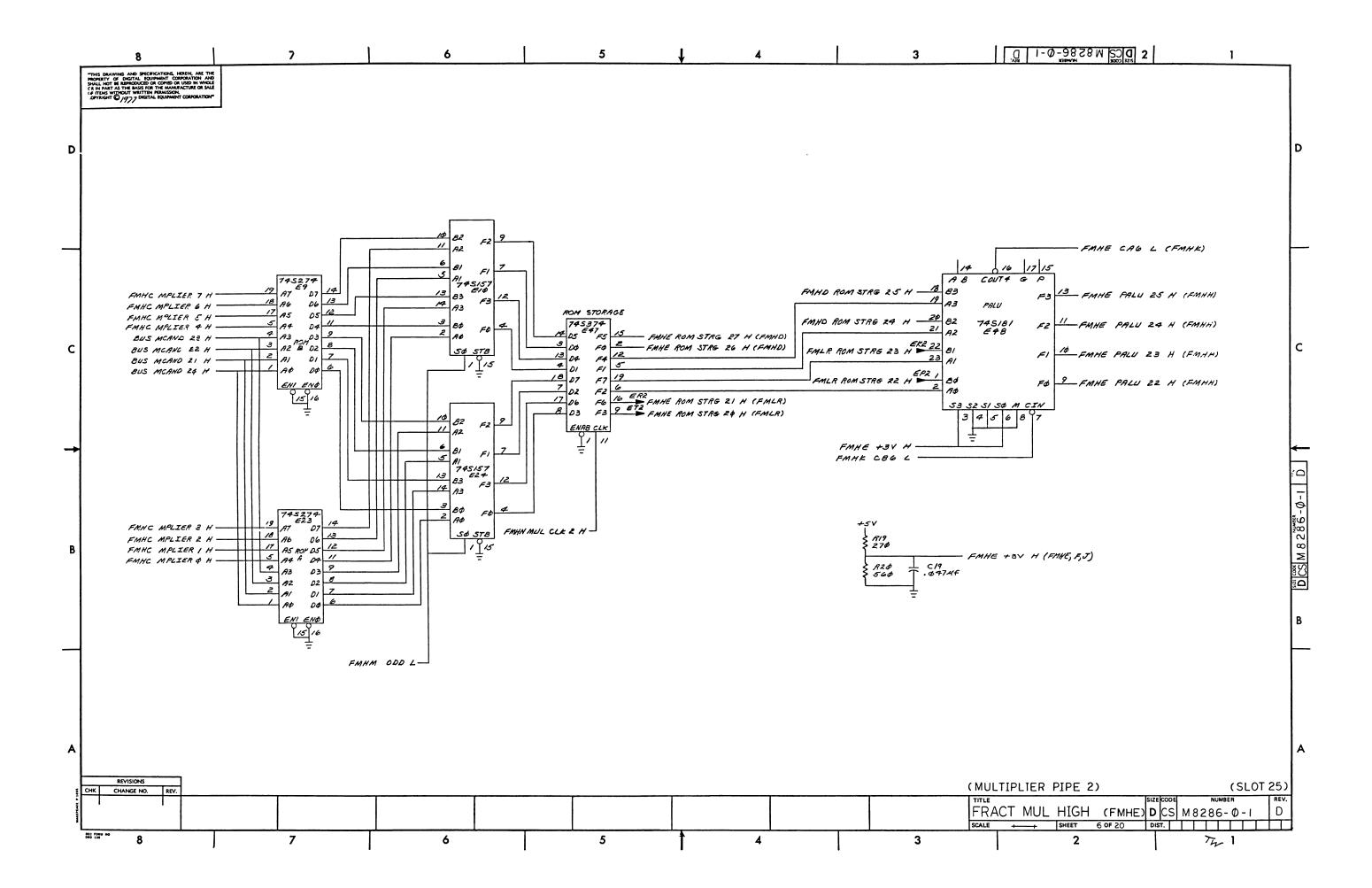


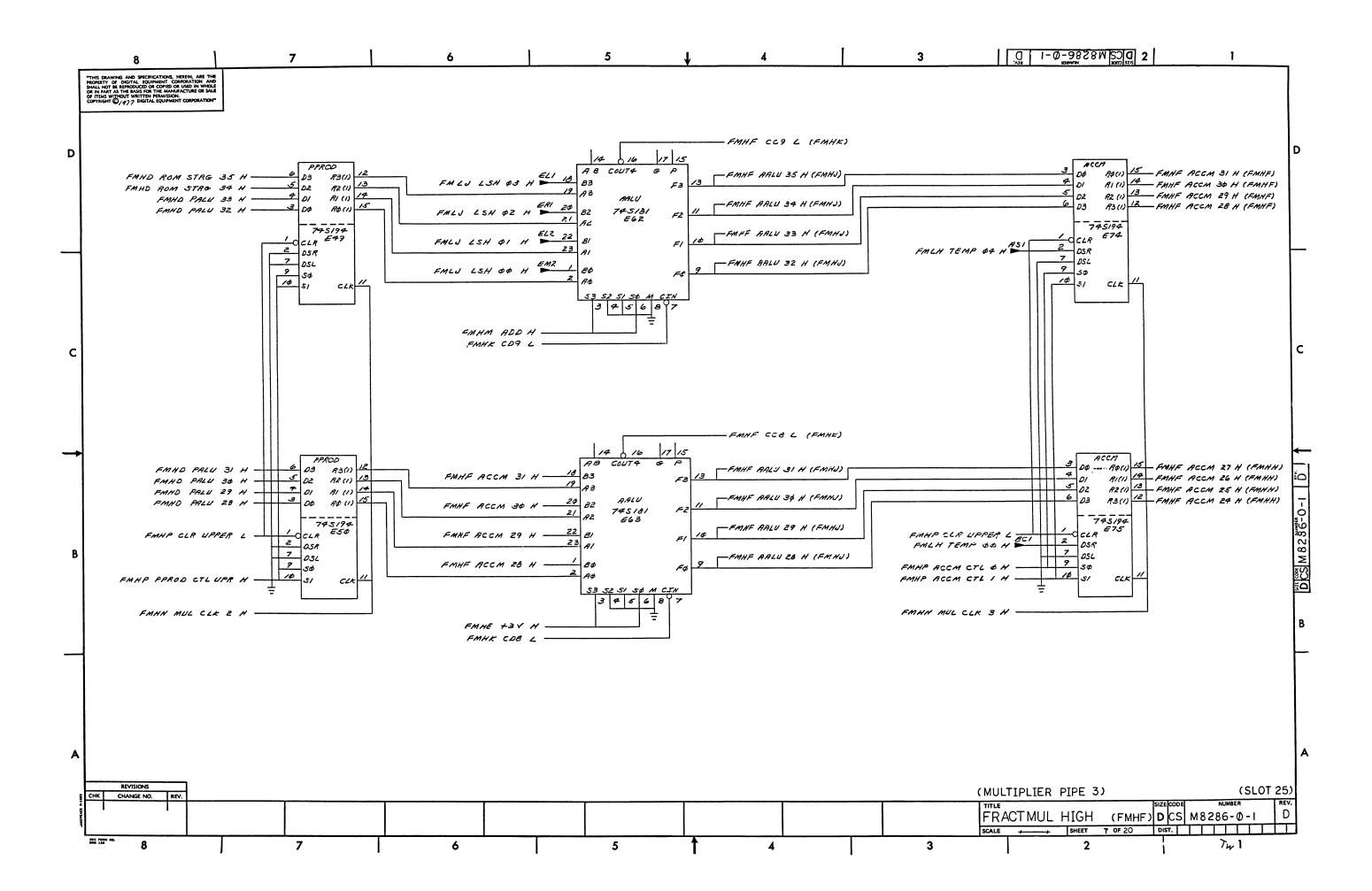


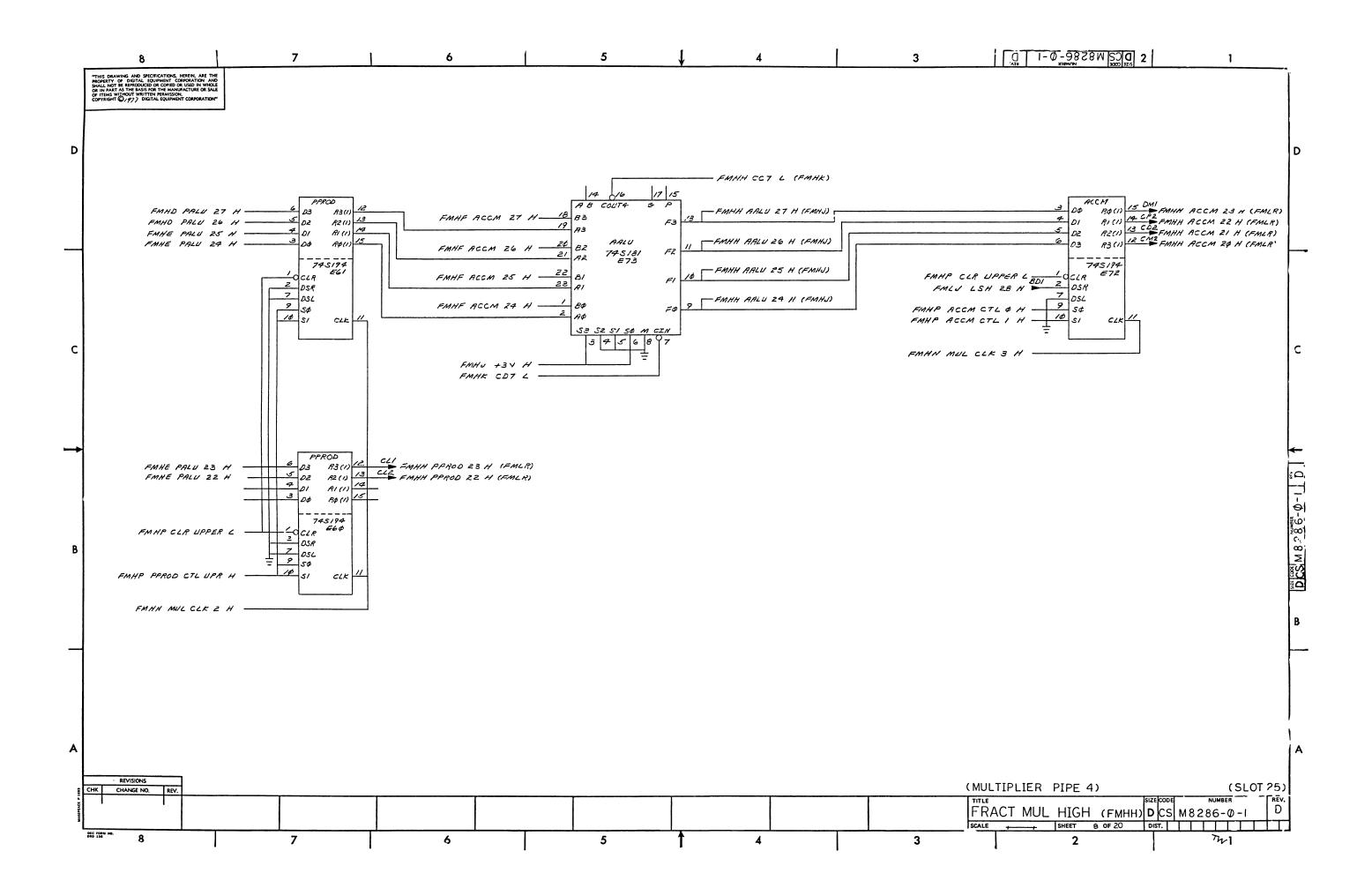


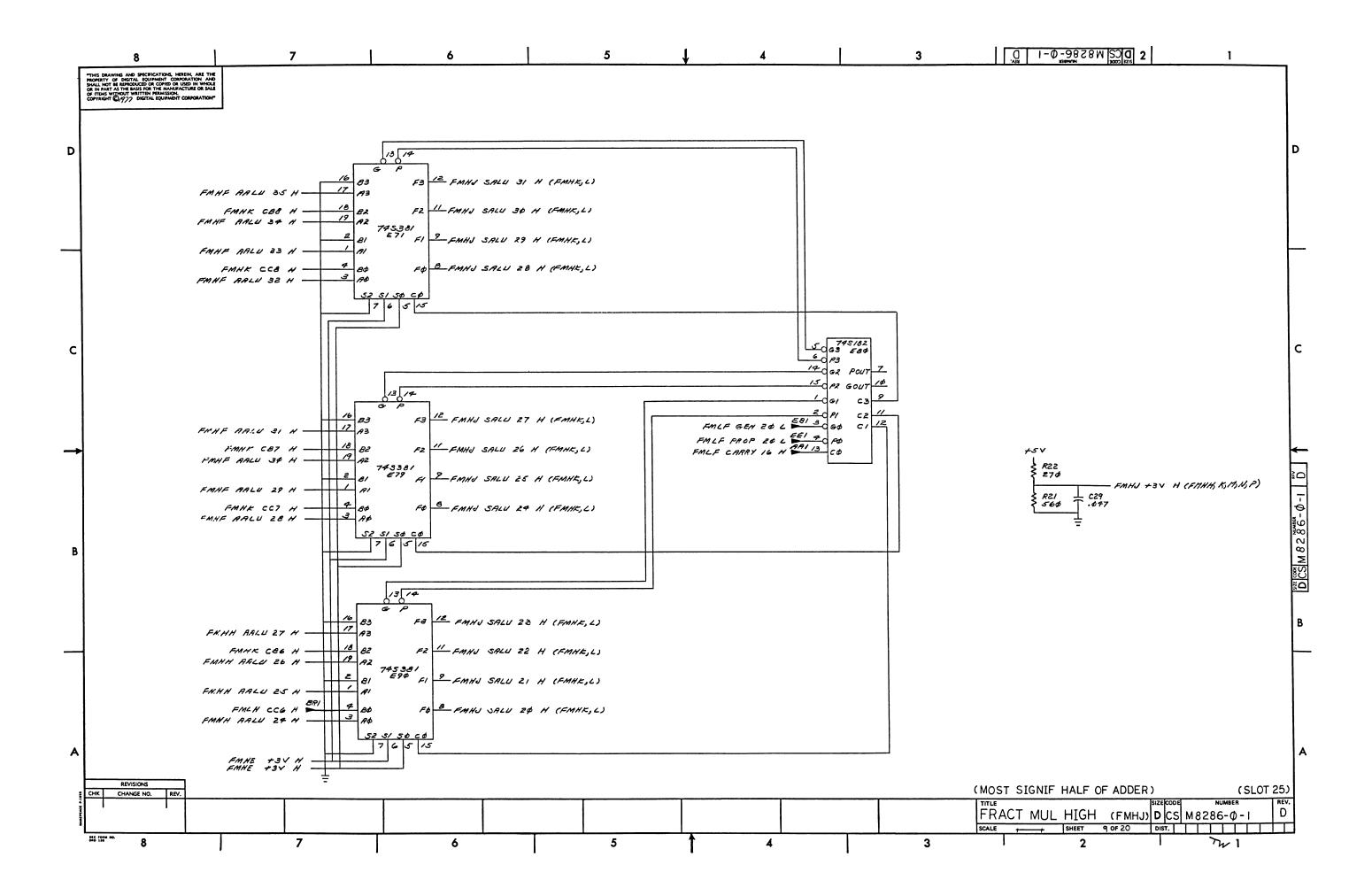


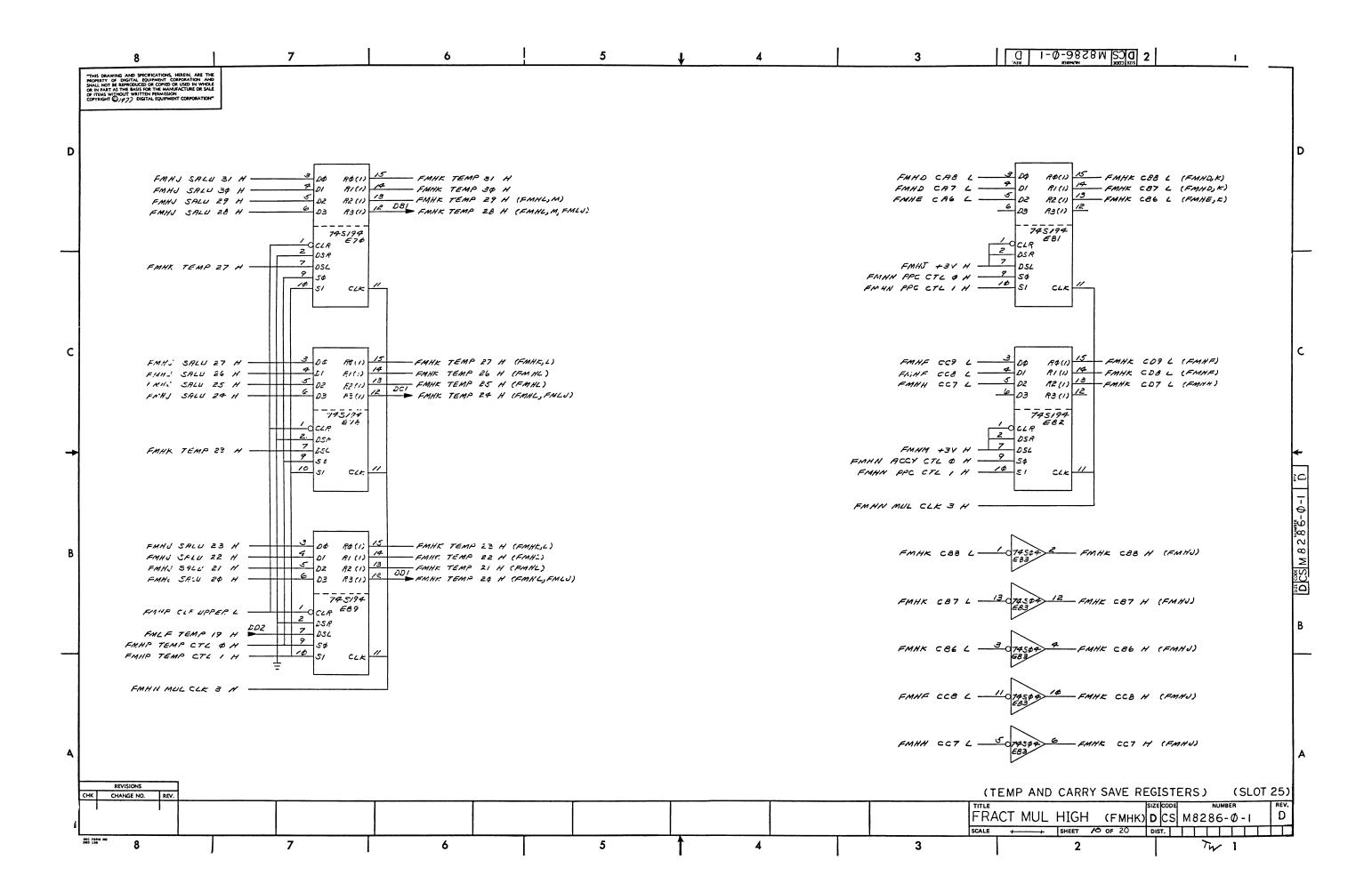


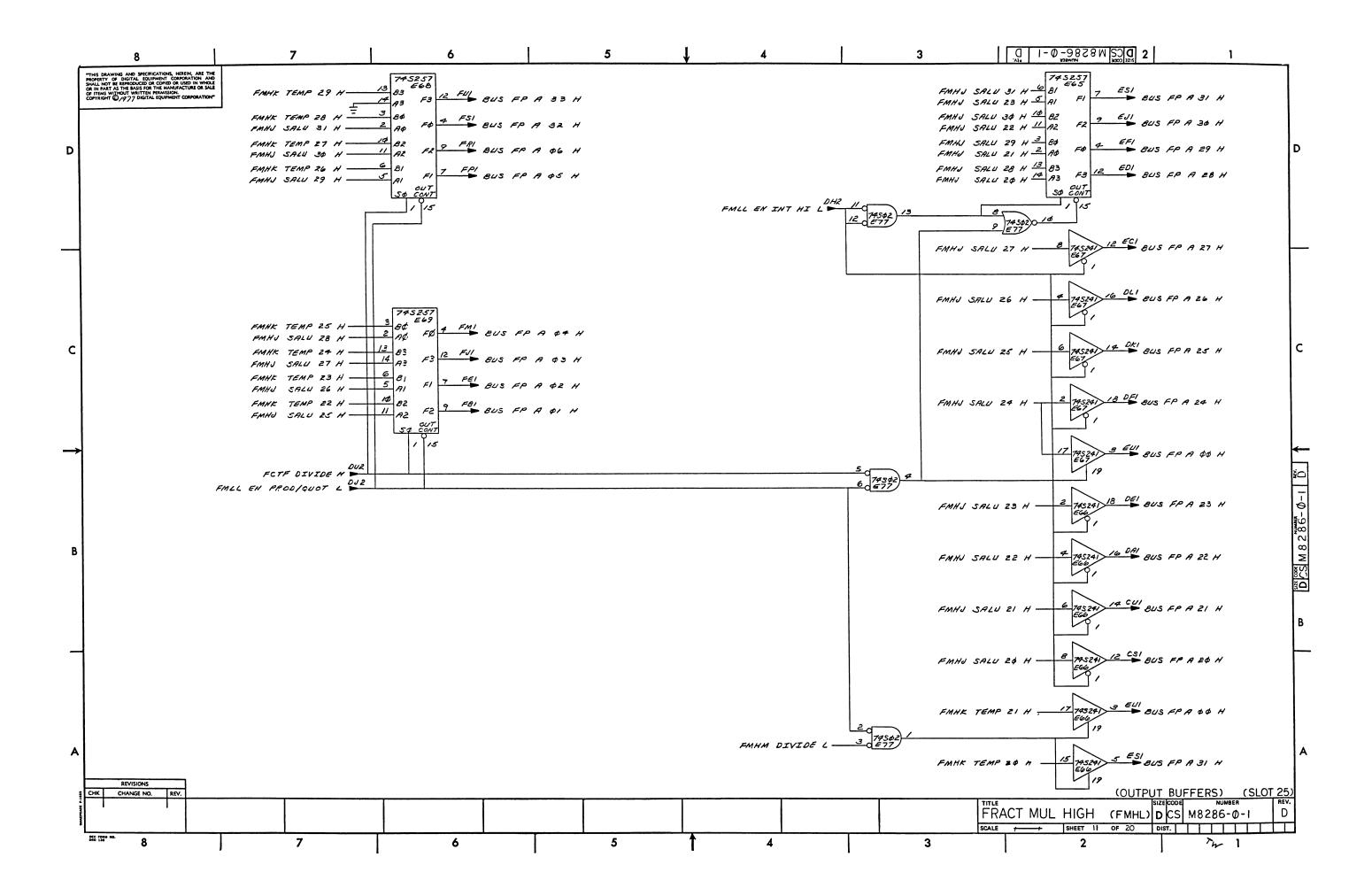


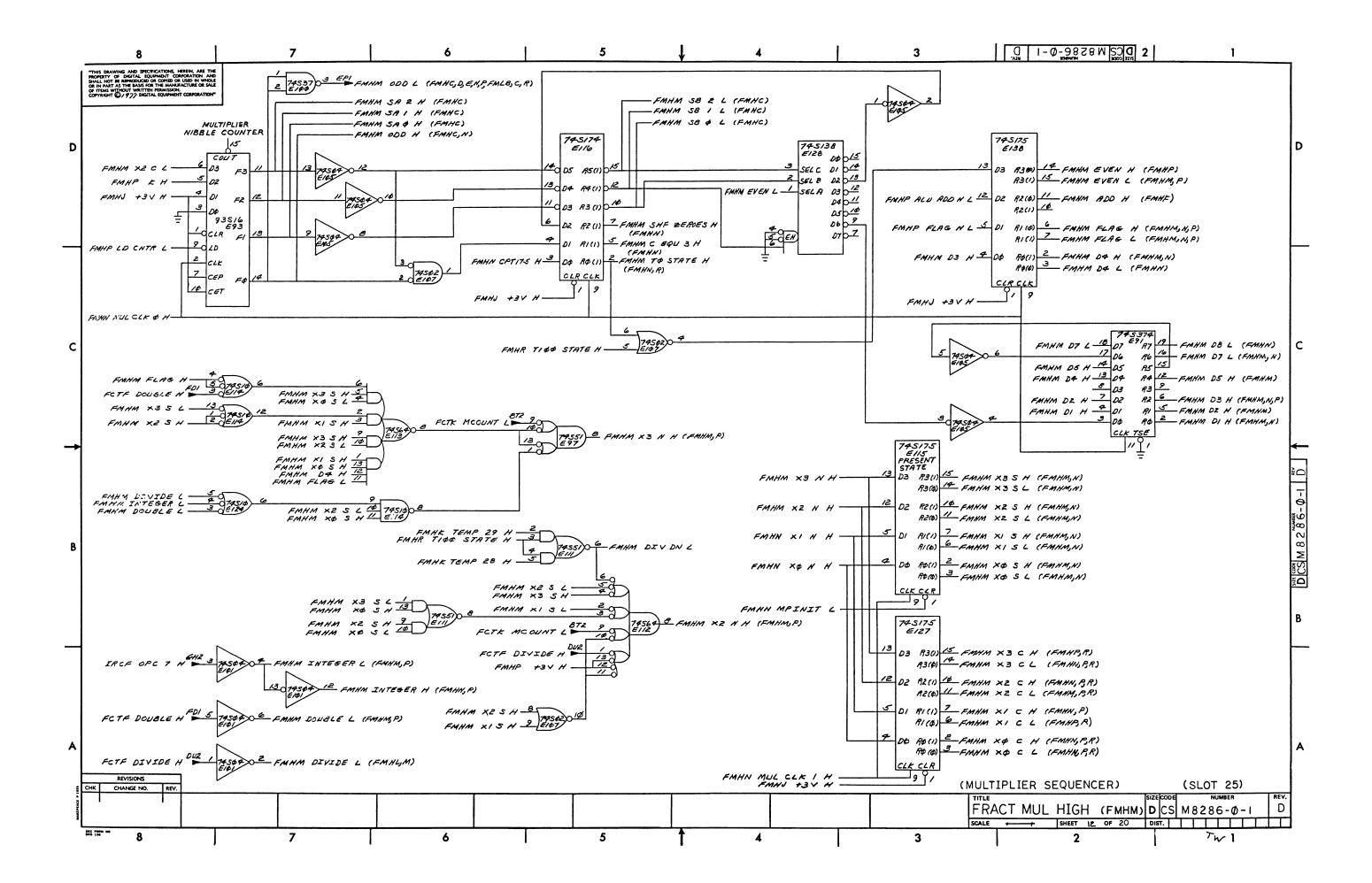


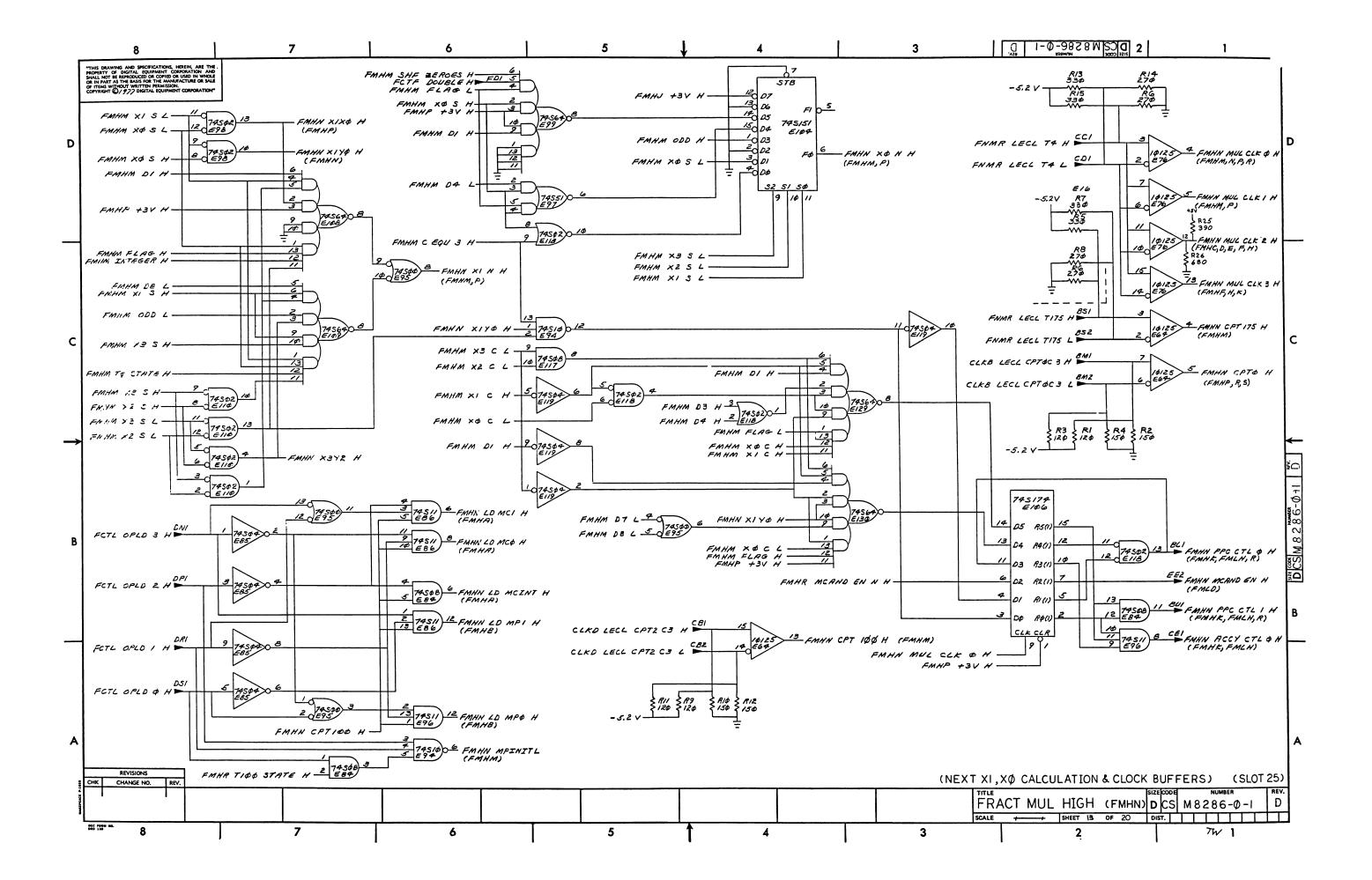


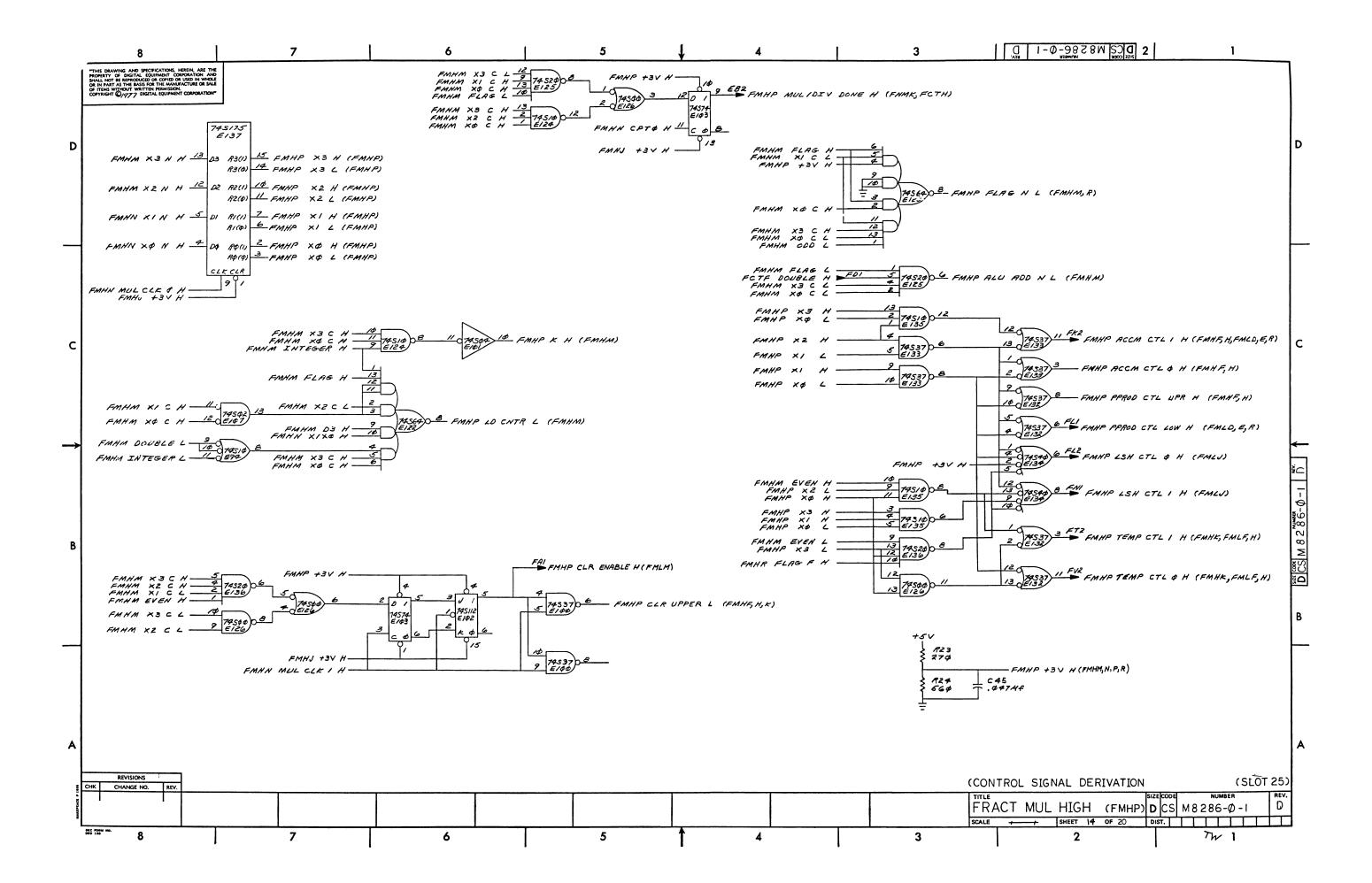


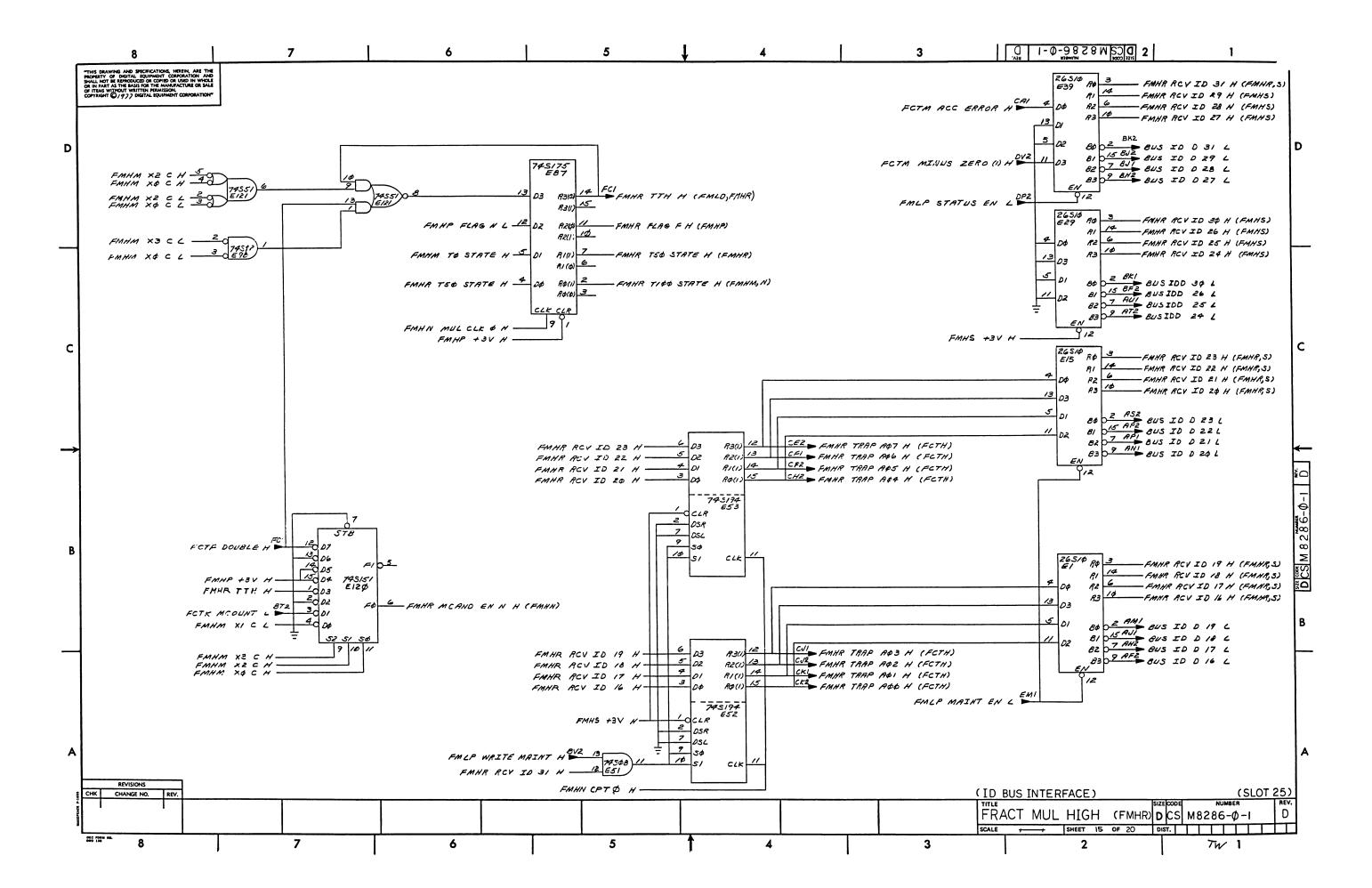


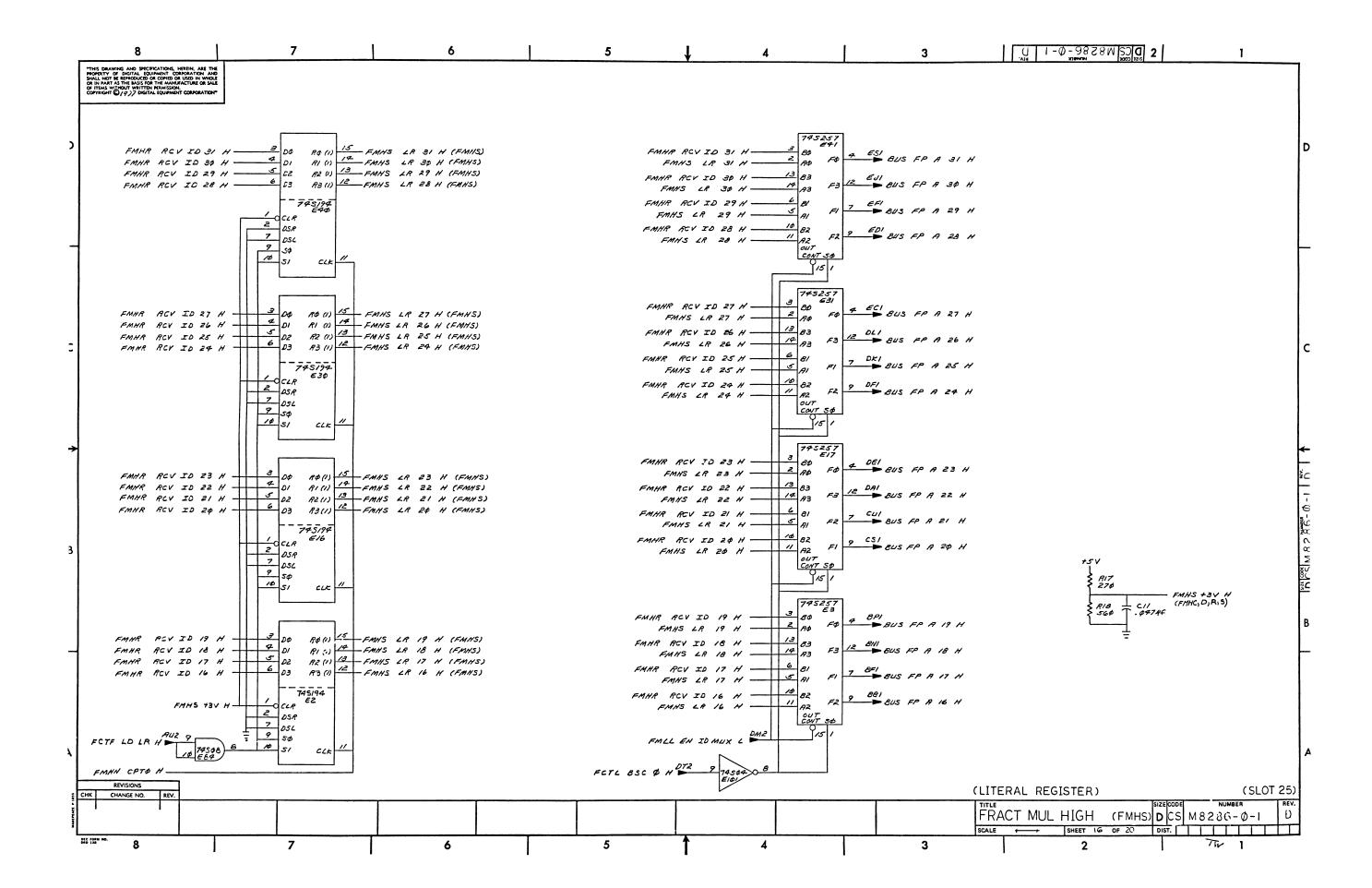


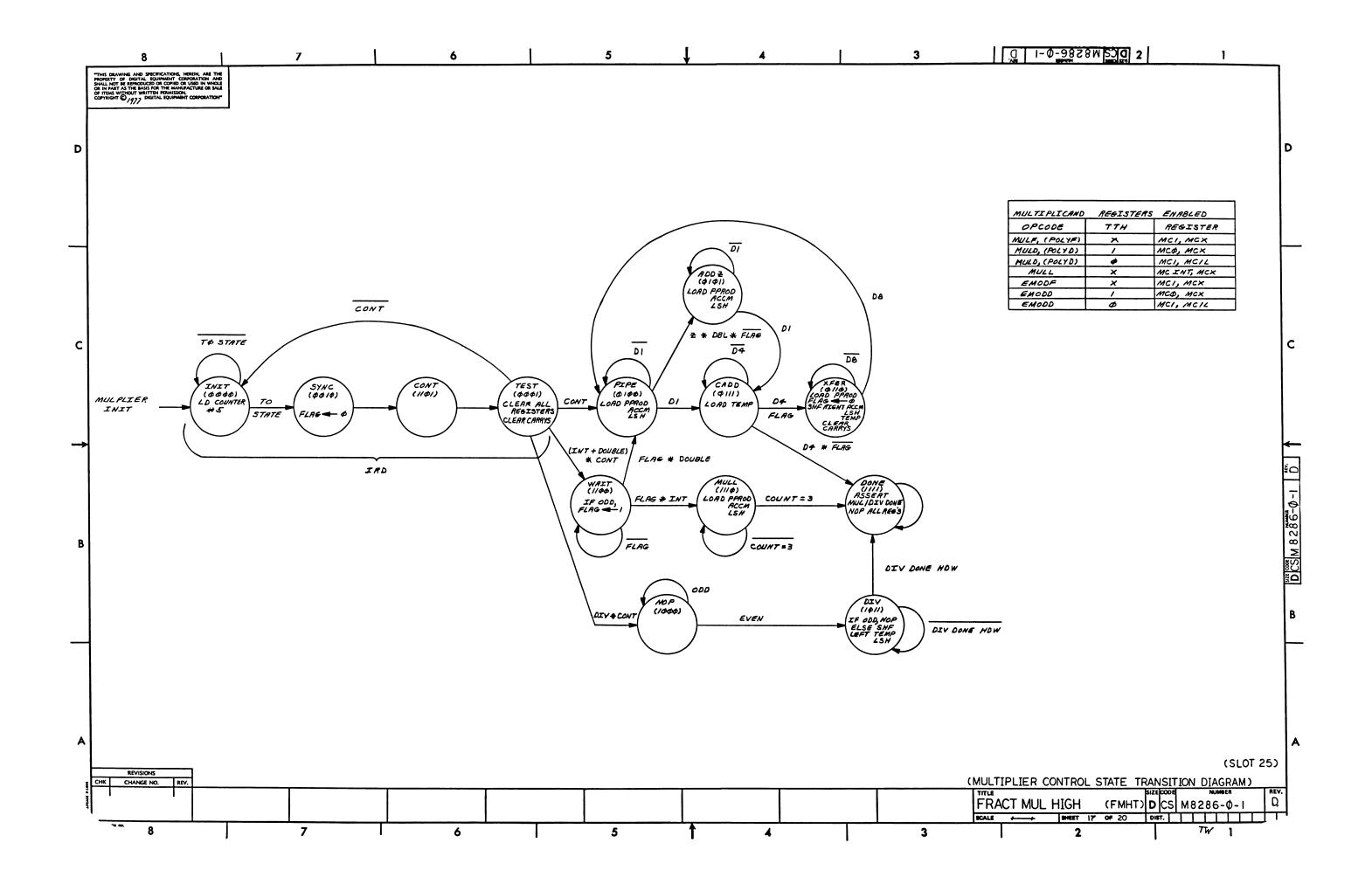




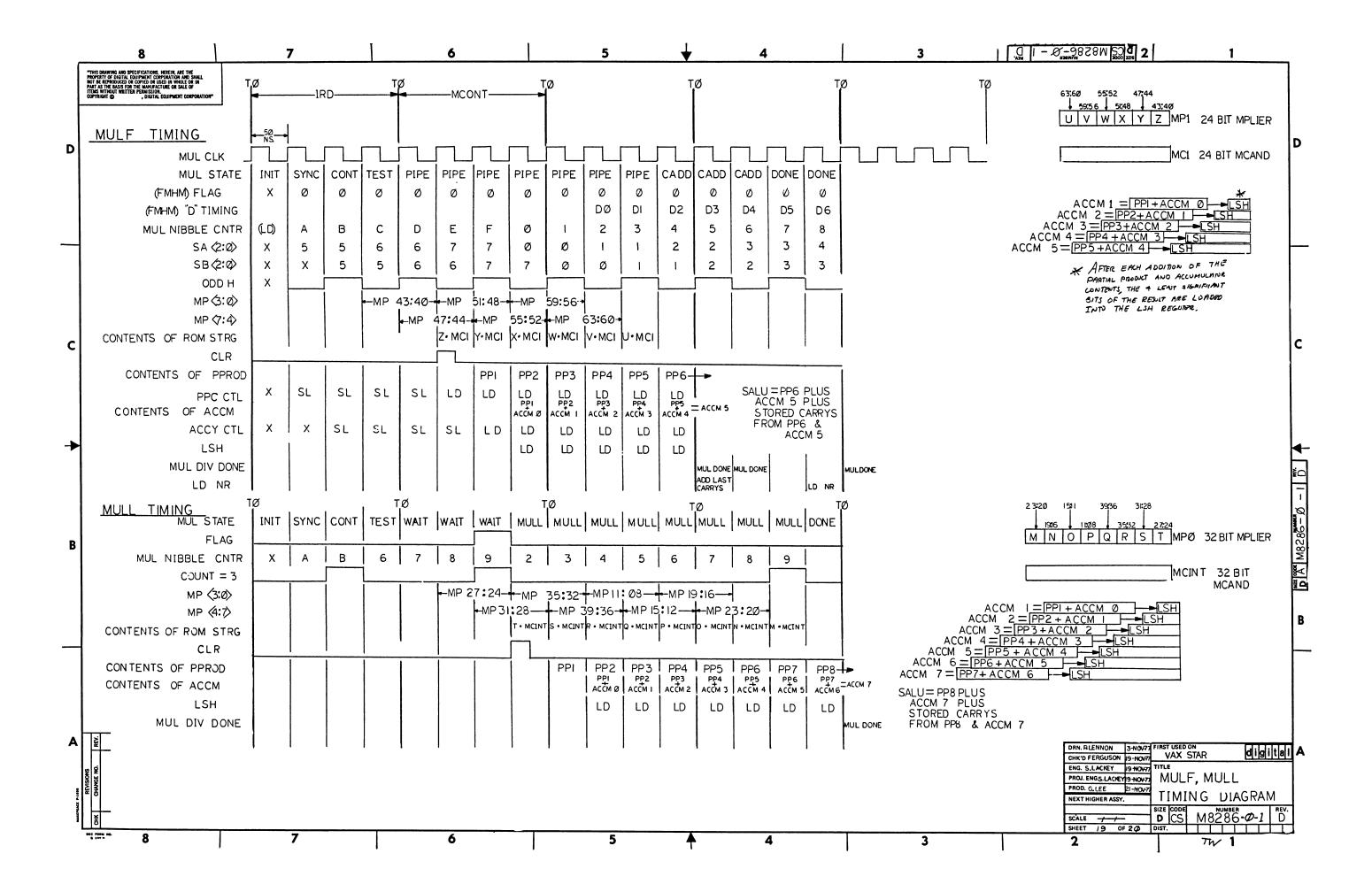


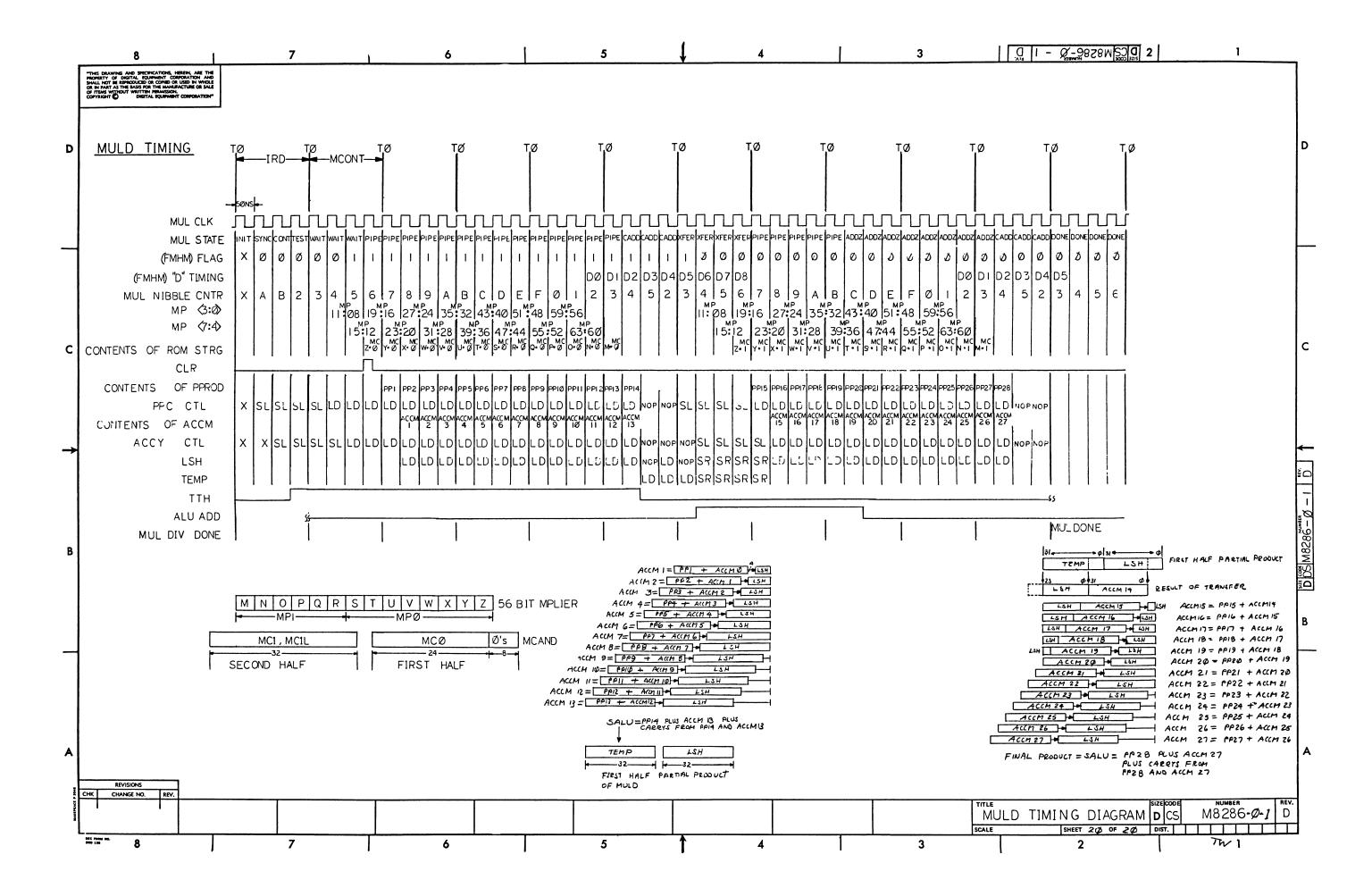


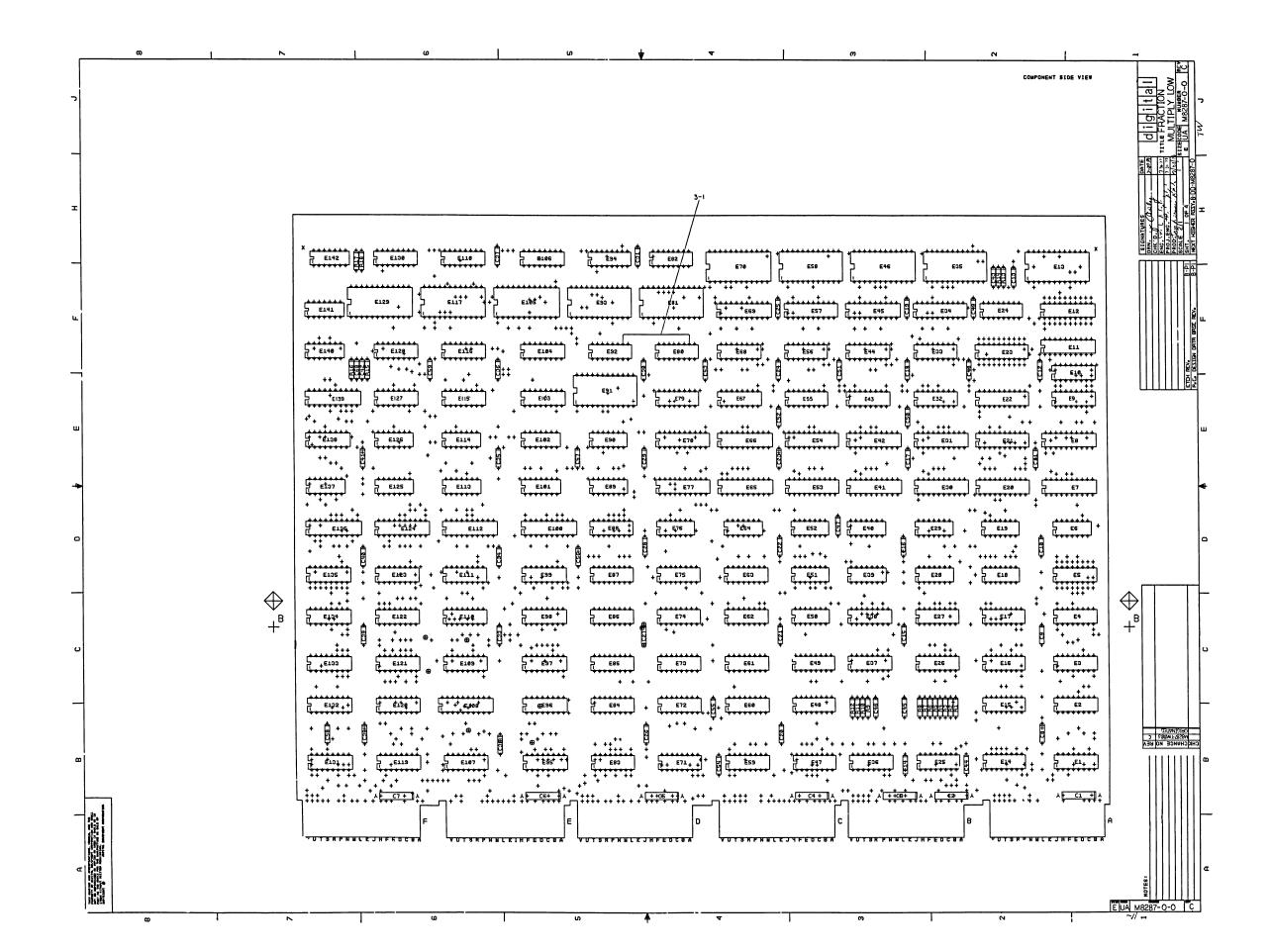


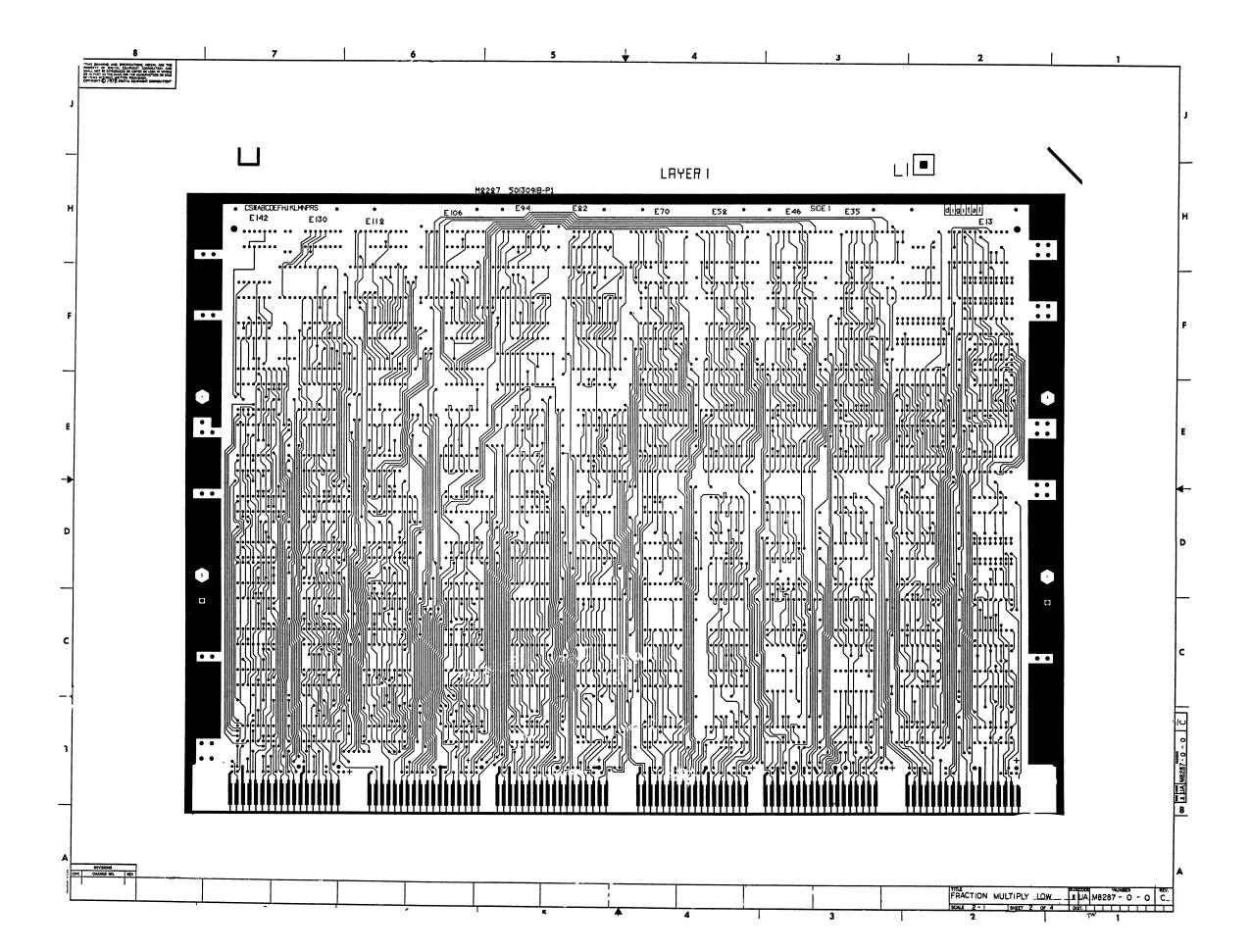


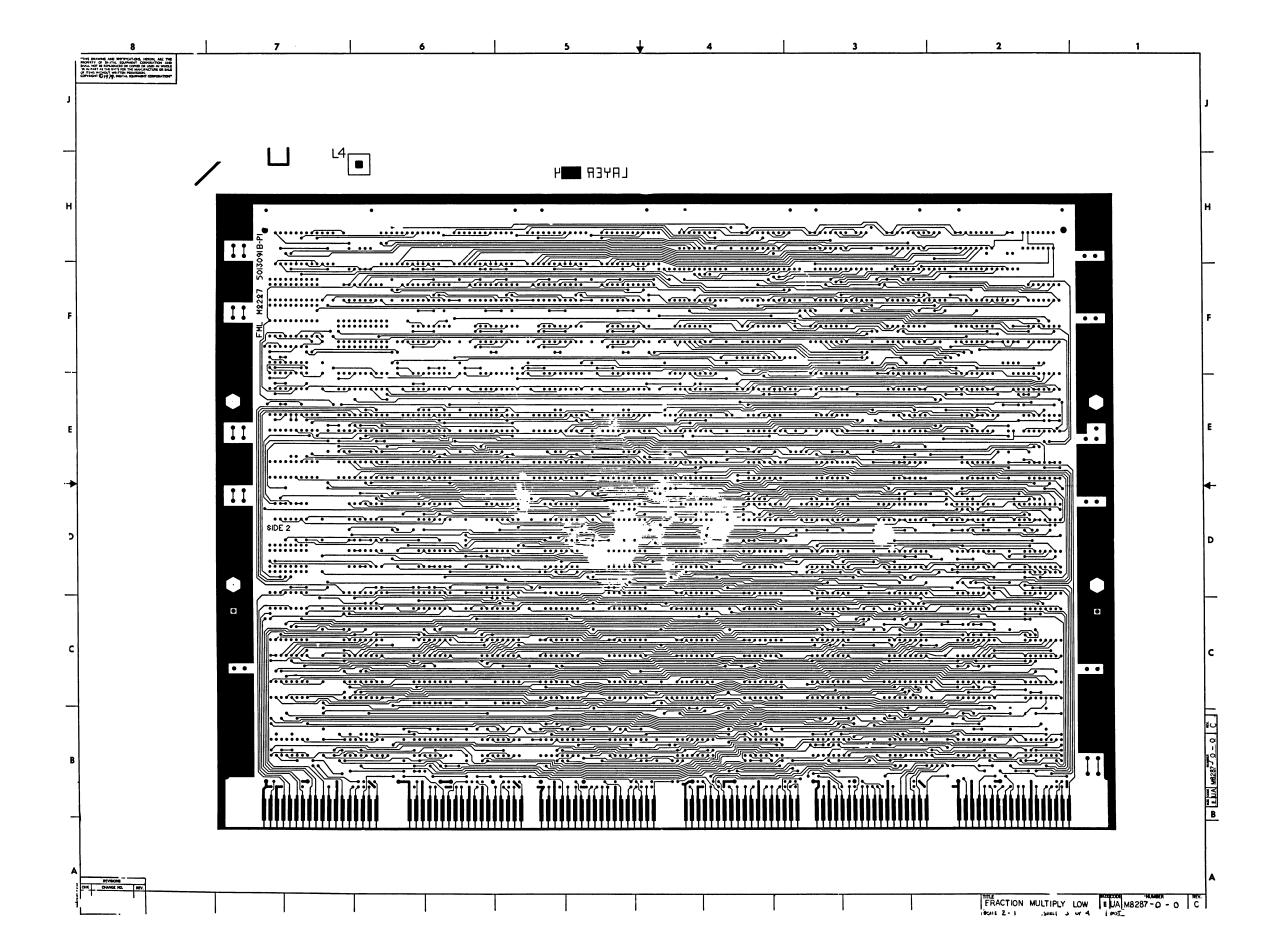
																* DON	'T CARE STA'	TE	
Γ		STATE VAR	ABLES		NAME	NEXT STATE	DEFINITION				OUTPUT CONTROL								D
F	X3	X2	X1	X &	INIT	IF TØ, THEN ØØØØ; ELSE ØØIØ	RESULT OF MINIT SIGNAL FROM MICROCODE. PREPARES MPLIER NIBBLE SELECT COUNTER FOR MULF SEQUENCE.	LD CNTR	ONTR CONSTANT	NEXT TTH	NEXT ALU ADD	NEXT FLAG	NEXT CLR ALL	MUL/DIV Done	PPR/ID	ACOM	LSH	TEMP	
								1	ម្រេ	g •	1 IF FLAG AND DOUBLE	PREV FLAG	1	ø	NOP	NOP *	NOP *	NOP	
	g	g	1	g	SYNC	11 81	ENTRY FROM STATE ØØØØ AT 15Ø TO PROVIDE SYNCRONIZATION BETWEEN MULTIPLIERS 5Ø ns. CLOCK AND MICROCODES 2007 ns. CLOCK.	g	\g18 *	g	1 IF FLAG AND DOUBLE	g	1	g	ъ •	SR *	SR •	SR •	_
	1	1	g	1	CONT	9991	NOP IF MULF OR EMOOF; LOAD MPLIER NIBBLE SELECT COUNTER IF MUL, MULD, OR EMOOD.	1 IF DOUBLE OR INT	Ø118 IF INT Else Ø118	1 IF DOUBLE ELSE Ø	g •	PREV FLAG	g	1	10	10	NOP •	NOP •	
	g	g	g	1	TEST	IF CONT., THEN 99990' ELSE IF DIV, THEN 19999; ELSE IF DBL. OR INT., 11999; ELSE 91990'	TESTS OPCODE FOR FIRST EXECUTION STATE CALCULATION; CLEARS THE MULTIPLIER DATA PATH,	g	IBIØ ◆	PREV TTH	g •	PREV FLAG	1	g	NOP .	NOP *	SL IF EVEN LD IF EVEN AND FLAG	Ð •	c
	1	g	g	g	NOP	IF EVEN THEN 1808; ELSE 1811	WAITS FOR FIRST QUOTIENT BIT TO BE FORMED IN THE NALU.	1 *	1919	g •	g	PREV FLAG	g	g	NOP	NOP	NOP	NOP	
	1	g	1	1	DIV	IF DIV DONE, THEN 1811; ELSE 1111	SHIFTS LSH AND TEMP LEFT ONE BIT TO ACCEPT QUOTIENT BITS IN DIVIDE	1 IF D3 AND DBL OR INT *	(110 IF INT	1 IF DOUBLE ELSE PREV TTH	g	PREV	g	g	NOP +	NOP	SL IF EVEN	SL IF EVEN	
	1	1	Ø	Ø	WAIT	IF FLAG, THEN 11807 ELSE IF DBL, THEN 01900; ELSE 11107	CLEAR DATA PATH AND CARRY REGISTERS FOR MULD, EMODD, AND MULL. WAITS FOR FIRST ROM LOOK UP.	1 IF INT	ØØ1Ø Ø	PREV TTH	g	1 IF EVENELS PREV FLAG	1 IF EVEN	Ø	ம	ь	19	NOP	²⁸ C
	1	1	1	g	MULL	IF COUNT = 3, THEN 1118 ELSE 1111	RUNS MULTIPLIER PIPE FOR MULL.	g	Ø818 •	PREV TTH *	g	g	g	g	ъ	19	5	SR +	- - -
	g	1	g	Ø	PIPE	IF SHF ZEROES, AND DBL. AND FLAG THEN Ø1Ø1 ELSE IF D1, THEN Ø111; ELSE Ø1ØØ	RUNS MULTIPLER PIPE FOR FLOATING POINT MULTIPLY OPERATIONS. ADDS LSH'S 4 LSB'S TO ACCM'S 4 MSB'S IF SECOND TIME THROUGH DBL MULTIPLY.	1 IF INT AND FLAG	व्रवाच *	PREV TTH	1 IF FLAG AND DOUBLE	PREV FLAG	g	Ø	Ш	ம	ம	NOP +	WINDOWS CA WIND
	Ø	1	1	1	CADO	IF DA, THEN Ø111 ELSE IF FLAG, THEN Ø11Ø ELSE 1111	STOPS PIPE TO ADD FINAL STORED, CARRYS TO FINAL ACCUMULATION. LOADS TEMP.	1 IF 03	<i>9</i> 1 111	g	g	PREV FLAG	g	1 IF FLAG	NOP	NOP	LD IF EVEN AND FLAG	ь	80 전 편 8
	g	1	1	Ø	XFER	IF DB, THEN Ø11Ø Else Ø19Ø	SHIFTS ACCM, TEMP, AND LISH PIGHT TO TRANSFER.	g	<i>Ø</i> 1818 ◆	PREV TTH	1 IF DOUBLE	g	g	g	ம	SR	SR	SR	В
	g	1	g	1	ADOZ	IF DI, THEN BIBI ELSE BIII	ADDS ZERGES TO ACCM'S 4 MSB'S.	g	ØBIB	В	g	PREV FLAG	g	g	ம	ъ	ь	ro	
	1	1	1	1	DONE	1111	STOPS ALL REGISTERS FROM CHANGING TO ALLOW NR OR CPU D REG. TO ACCEPT FINAL RESULT.	1 IF D3 AND DOUBLE OR INT	Ø118 IF INT Else Ø918	1 IF DOUBLE	g	PREV FLAG	g	1	NOP	NOP	NOP	NOP	
REVISION HANGE N												ULTII	PLIE	R CON	FROL S	IGNAL	S)		(SLOT 25)

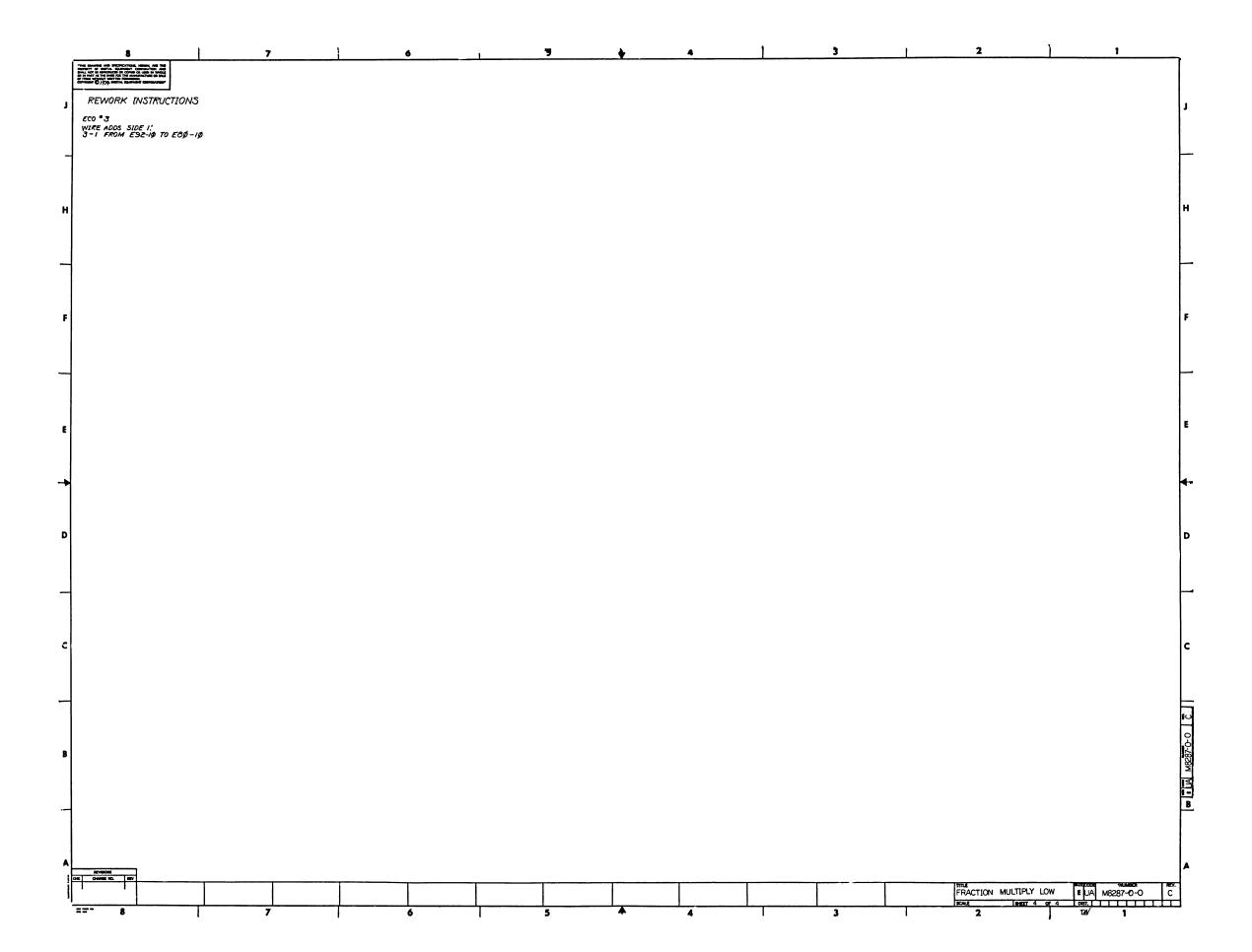












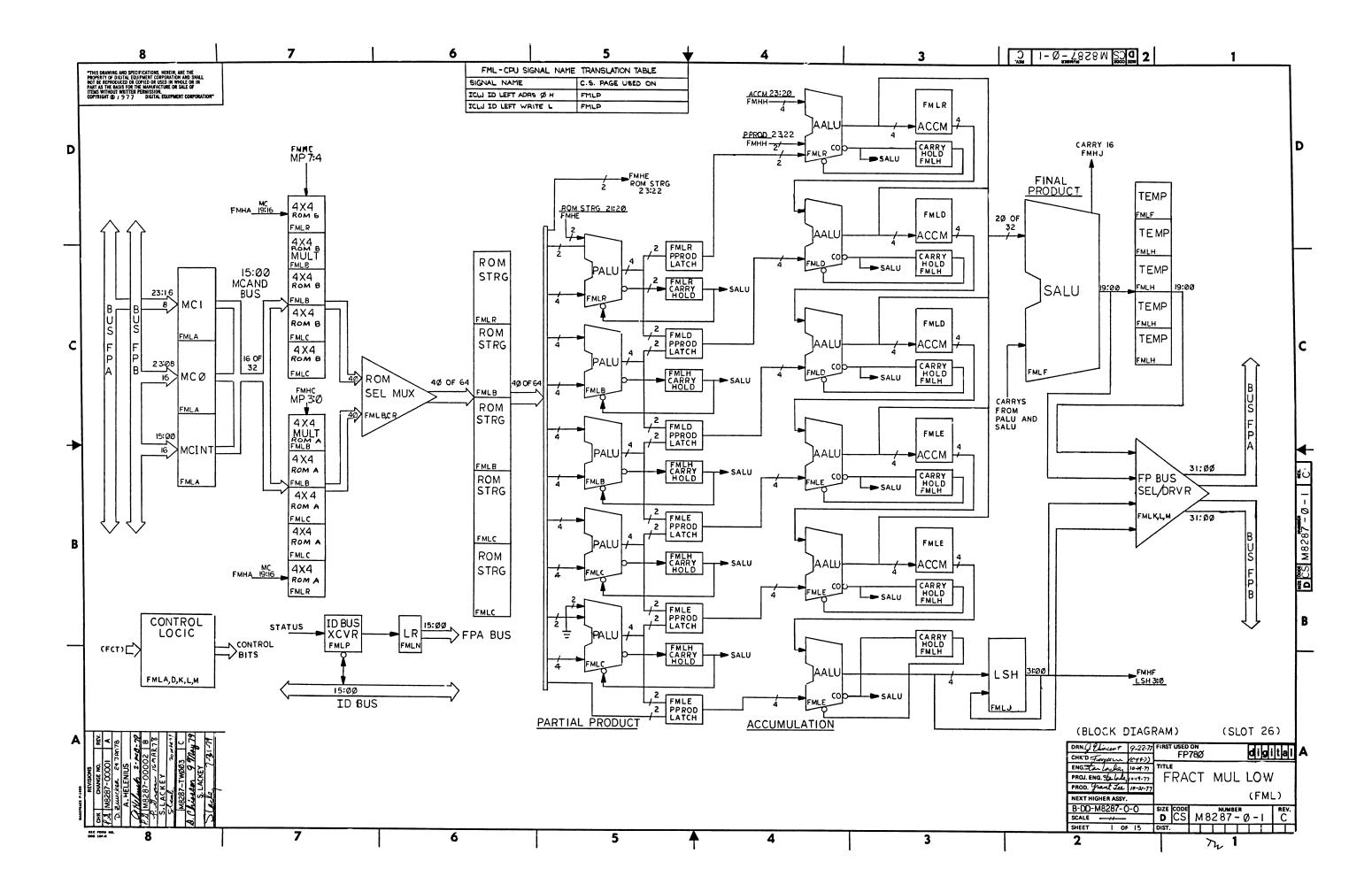
	ATED BY PI	TLST.3H(24)	PARTS LIST	QTY PER VA	PIRTION	SHEET A	1 OF A
LINE	ITEM DOCU	ENT NUMBER	PART NUMBER DI	ESCRIPTION	00		NCE DESIGNATOR	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1 D-MD: 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	5013091-0-	1012084-01 1012784-00 1300247-00 1300250-00 1301972-00 1301890-00 1910532-00 1910536-00 1910537-00 1910539-00 1910539-00 1910539-00 1910548-00 1910531-00 D	### A MFD	0 4 N 3 P 2 U 4 2 10 11	R10, R14, R14, R14, R14, R19, E19, E19, E18, E18, E18, E18, E18, E18, E18, E18	R6,R8 R5,R7 .,R13,R15 .2 .6 .02,E125 /6,E89,E126,E140,E 4,E113,E137 50,E101 114 29,E39,E90 142 0,E32,E33,E43,E44, 58 85,E46,E58,E70,E81 E117,E129 5,E24,E26,E37,E49, 73,E74,E79,E60,E82 94,E97,E99,E103,E1	E55,E56,E91,E9 E61,E67,E85,E8
20 21	20 21		**************************************	74s241 UCTAL BUFFER, TRI-STAN 74s257 MUX, QUAD 2 TO 1	A 1 23	CONT E138 E108 E1.E2 CONT E48.E	E127,E128,E130,E13 ,E4,E14,F15,F17,E2 50,E72,E84,E95,E96 E110,E119,E120,E12	7,E38,
! !	REVISION H		BASIC PART NO: M8287		ATE: 19-0CT-7	77 ! ! D	IGIIT	AIL
ENG	ECO NUM INITIAL	PER IREV	ISECTION A OF A ISECTION.VARIATION INDEX [[A] 00 [[B]	ICHK D: F SMART ID	ATE: 19-0CT-7		PARTS LIST N MULITPI,Y LOW	
		<u>.</u> 1	i [C]	IDES.ENG: S LACKEY ID	ATE: 21-0CT-7	/7 ! !		
		! !	I (E) I (F) I (H)	RESP.ENG.: 5 LACKEY 10	ATE: 21-0CT-7	! !SIZE!CODE		! REV
1 1		1	! [J] ! [K]	IMFG.ENG.: M TEPELLA ID	ATE: 21-0CT-7	17 ! K ! PL	1 1 M8287=0-DBP	! ! C
		!	1 (L) 1 (M) 1 (N)	IASSEMBLY NUMBER: IT	OP DOCUMENT A	UMBER:	! FILE NAME: ! M8287.PLS	EDIT 4

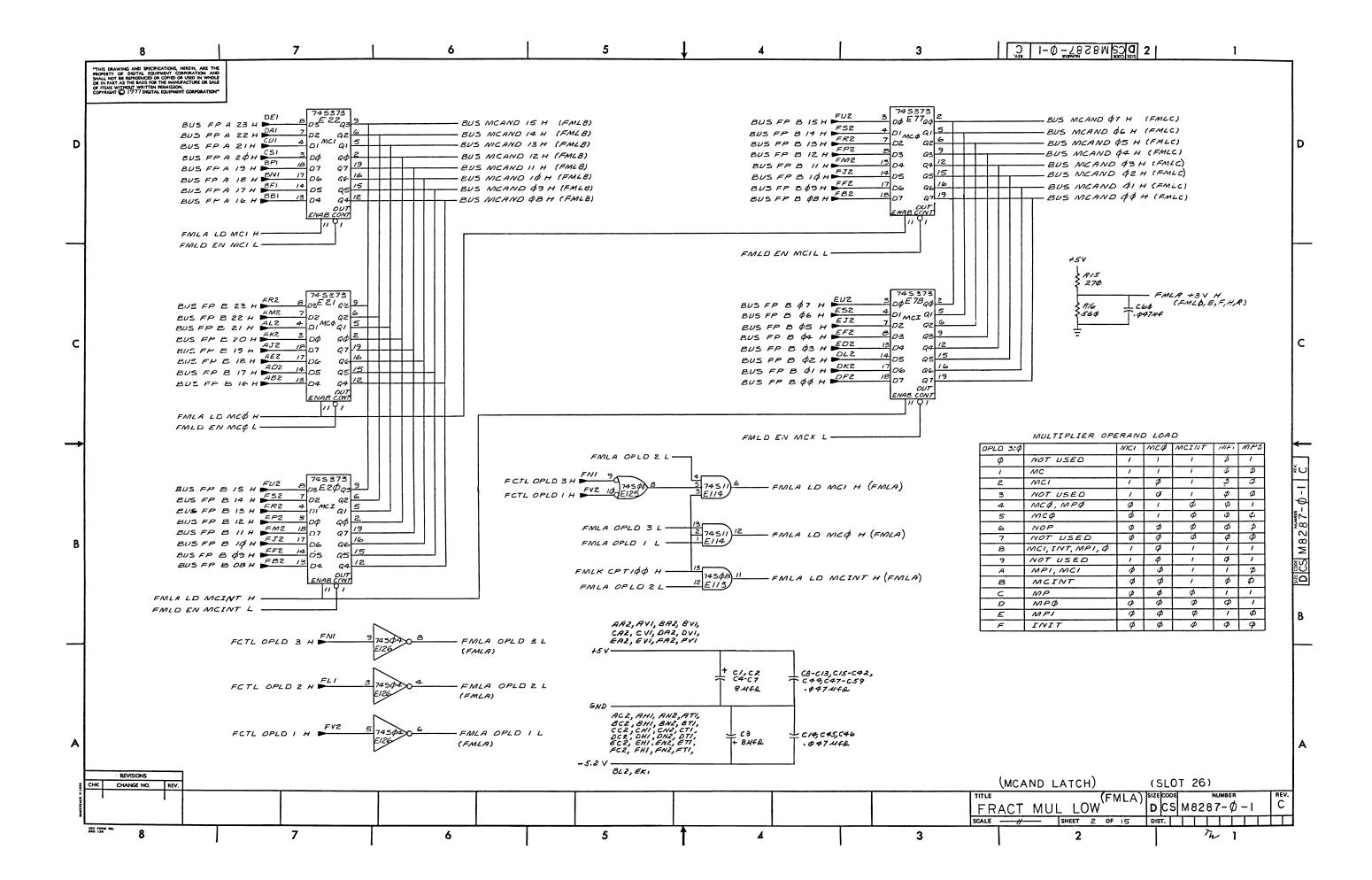
AUTOM	ATED	BY PRTLST, 3H(24)		PARTS LIST		SHEET A2 OF A2
					QTY PE	R VARIATION
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	ØØ	REFERENCE DESIGNATOR
						CONT E132,E134
22	22		2301281-00	B1-01 OR CUSTOM MASKED ROM (7482	10	E7,E8,E30,E31,E41,E42,E53,E54,
						CONT E65,E66
23	23		1913670-00	748373 TATCH SPIT TRASP TR	5	E20-E22,E77,E78
24	24		1913671-00	745374 FF-D OCTAL TRISTATE	5	E11,E34,E45,E57,E69
25	25		1913700-00	745381 "L"-48JT	5	E100,E112,E124,E136,E139
26	26		1912828-00	LS85 COMPARATOR, 4BIT MAGN	2	E75.E87
27	27		1911415-00	10125 FC4 TO TTL TRNSLTR	2	E25.E36
28	28		1913788-00	26S10 THANSCEIVER, BUS, QUA	4	E47,E59,E71,E83
29	29		1210711-02	HANDLE, MODULF, MEX	1	
30	30		9000024-01	EYELET, ROLLED FLANGE, .121 OD X	12	
31	31		9105740-55	WIRE(WRAP)30AW UL1423	A/R	
32	32		1300309-00	390 1/4W 5% CC	1	R17
33	33		1301424-00	680 1/4W 5% CC	1	R18

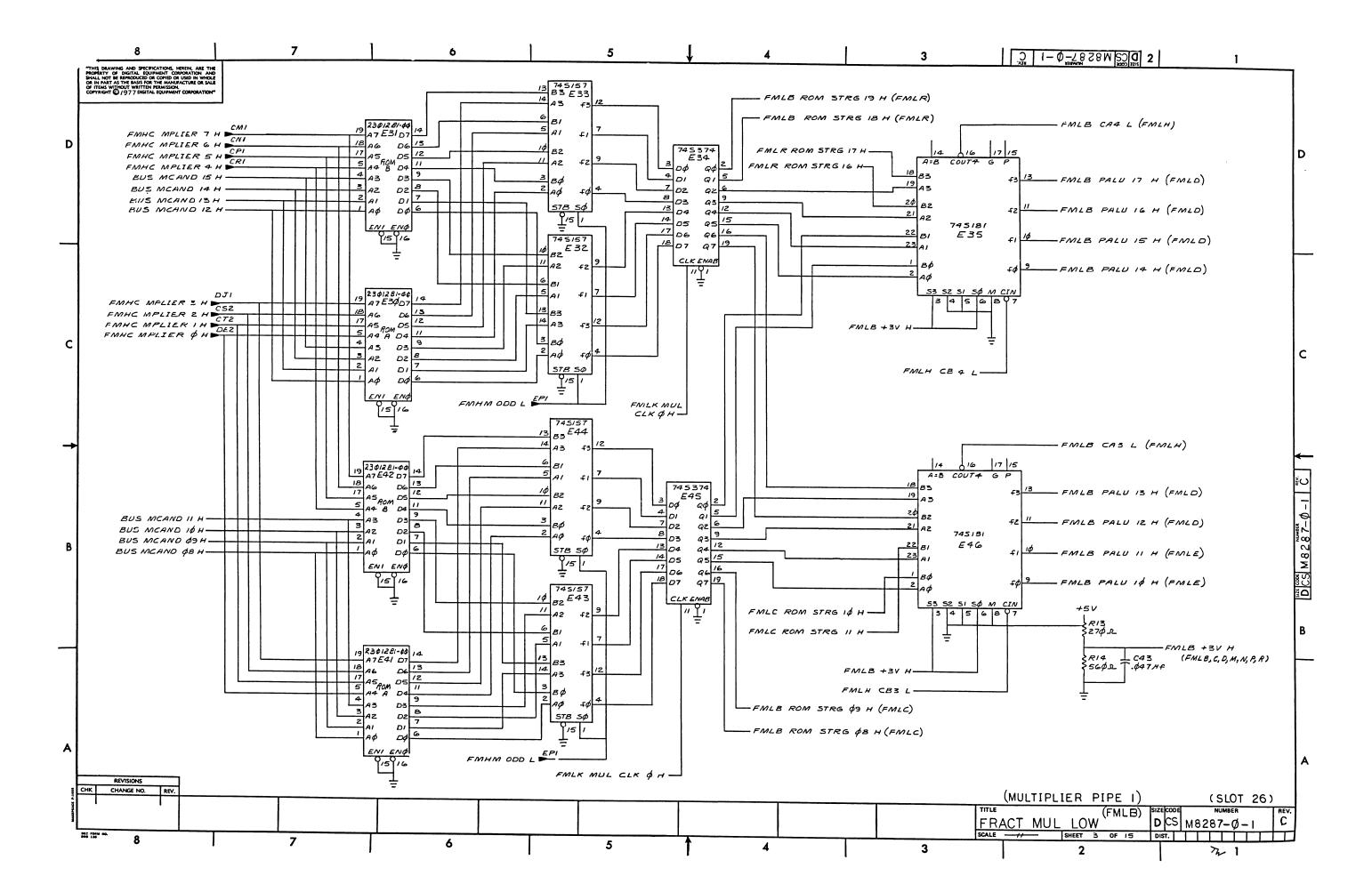
0 NOTE: I.C. SPARE LOCATIONS ARE E5,E12,E23

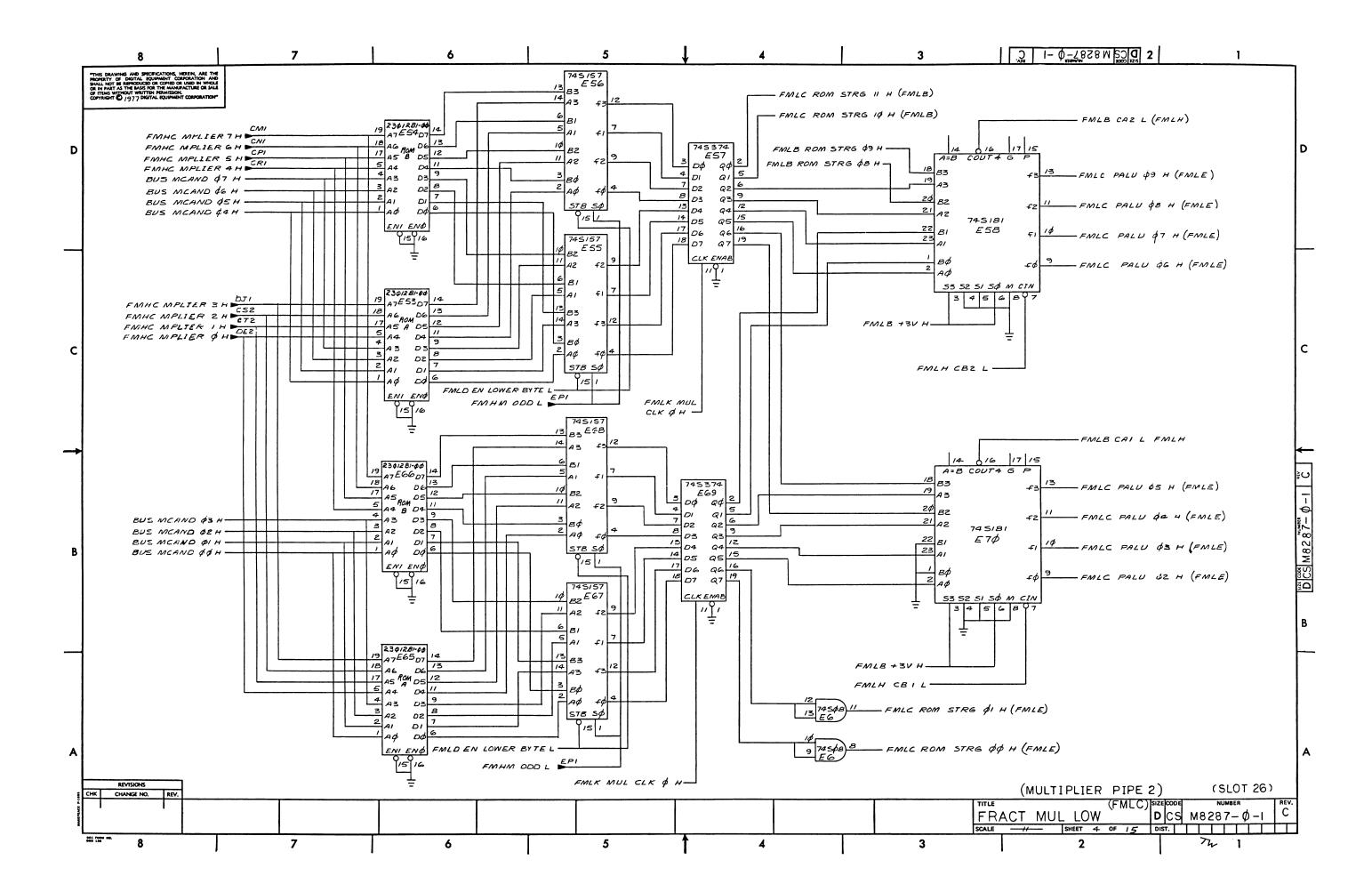
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		1 1	1 K ! FL ! M8287-0-DRP ! (C !
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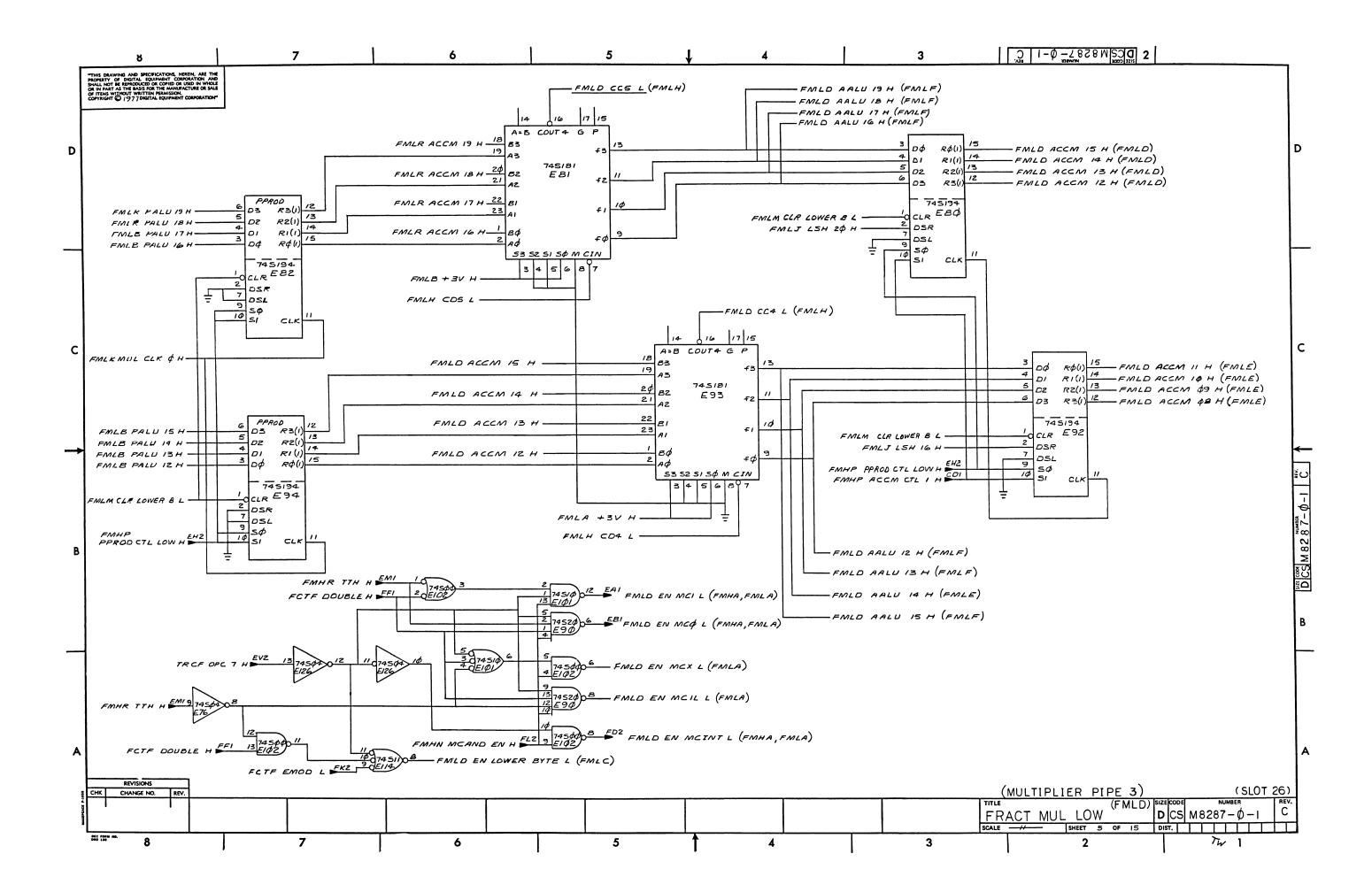
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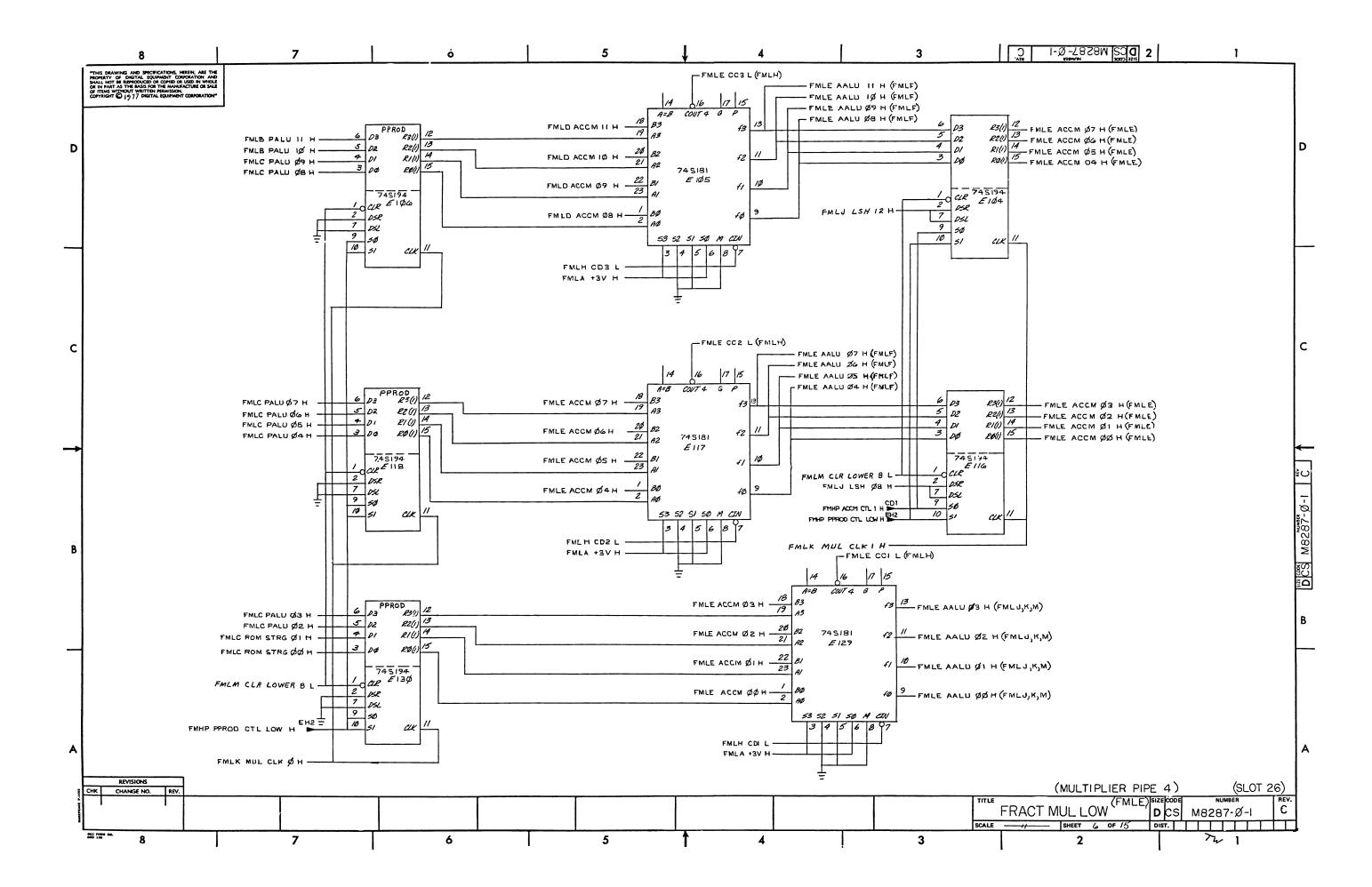


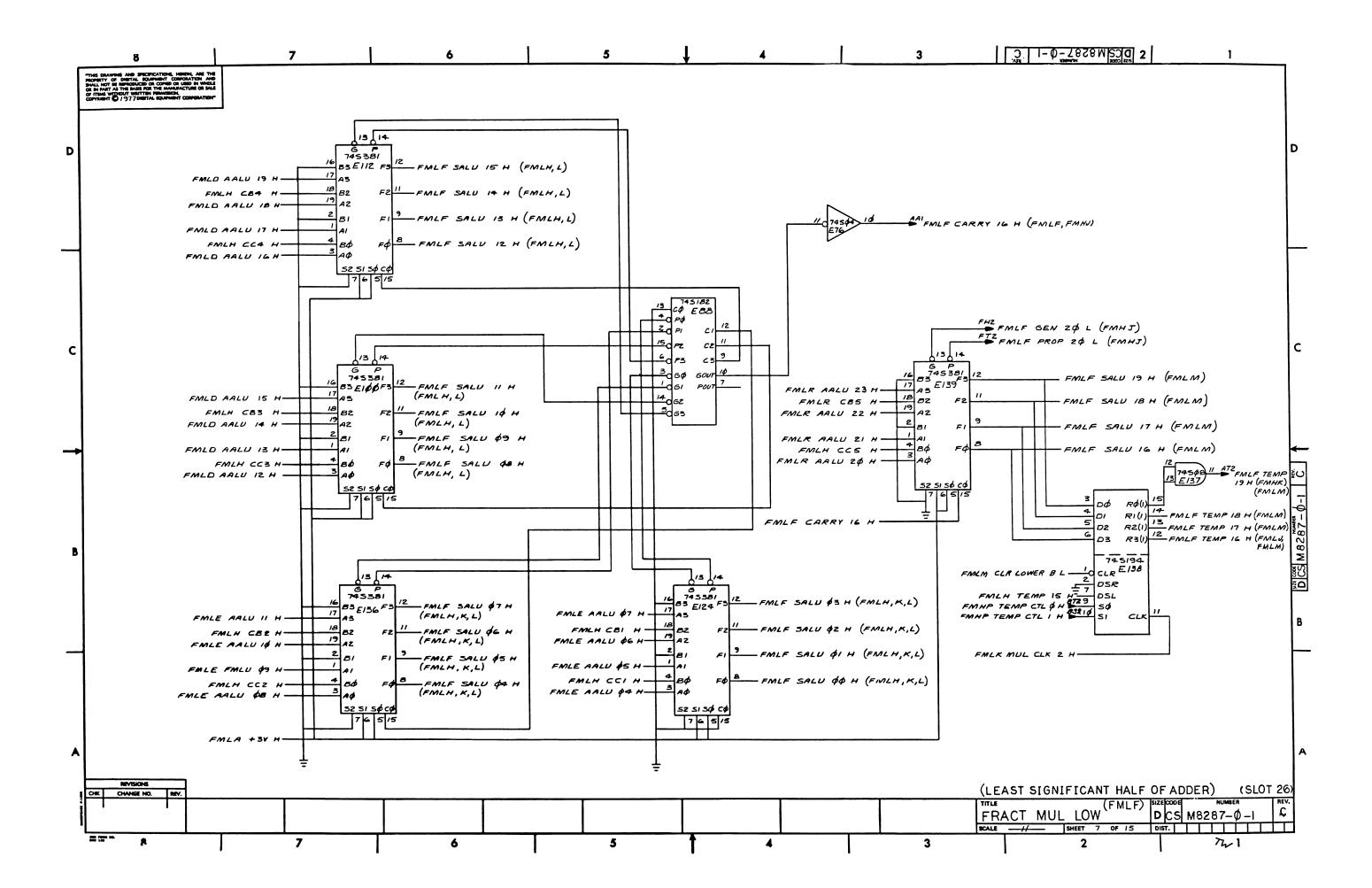


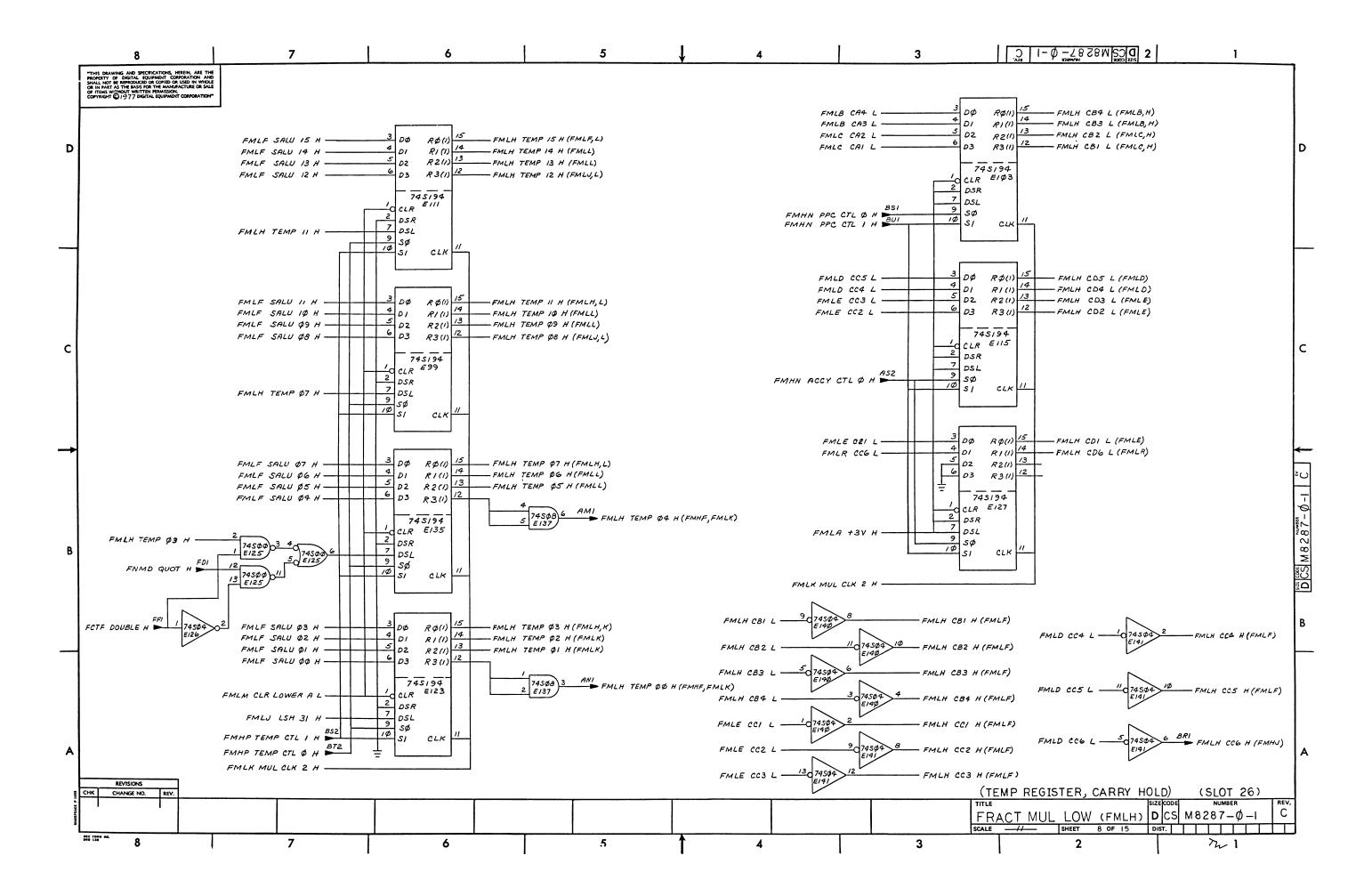


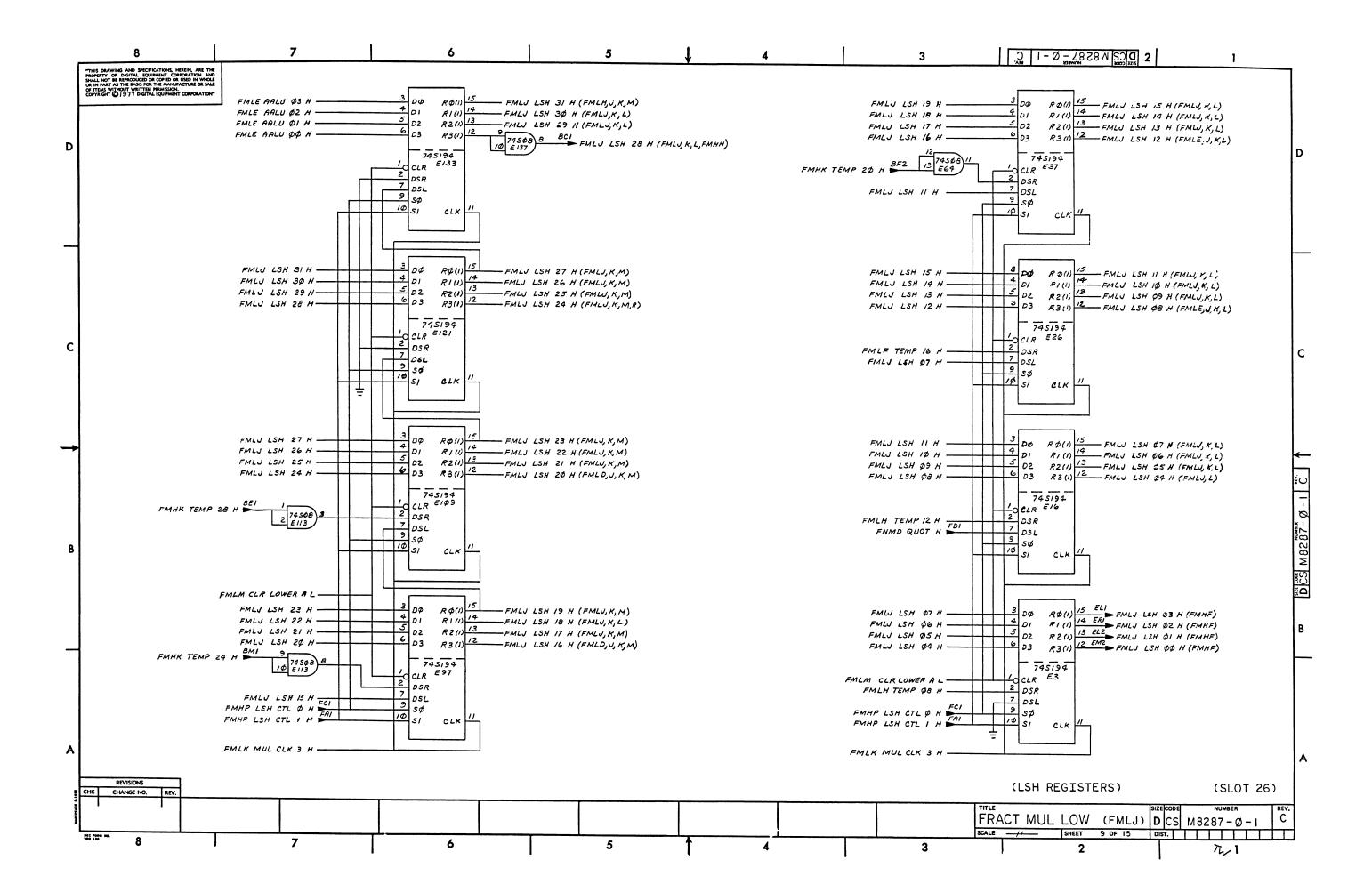


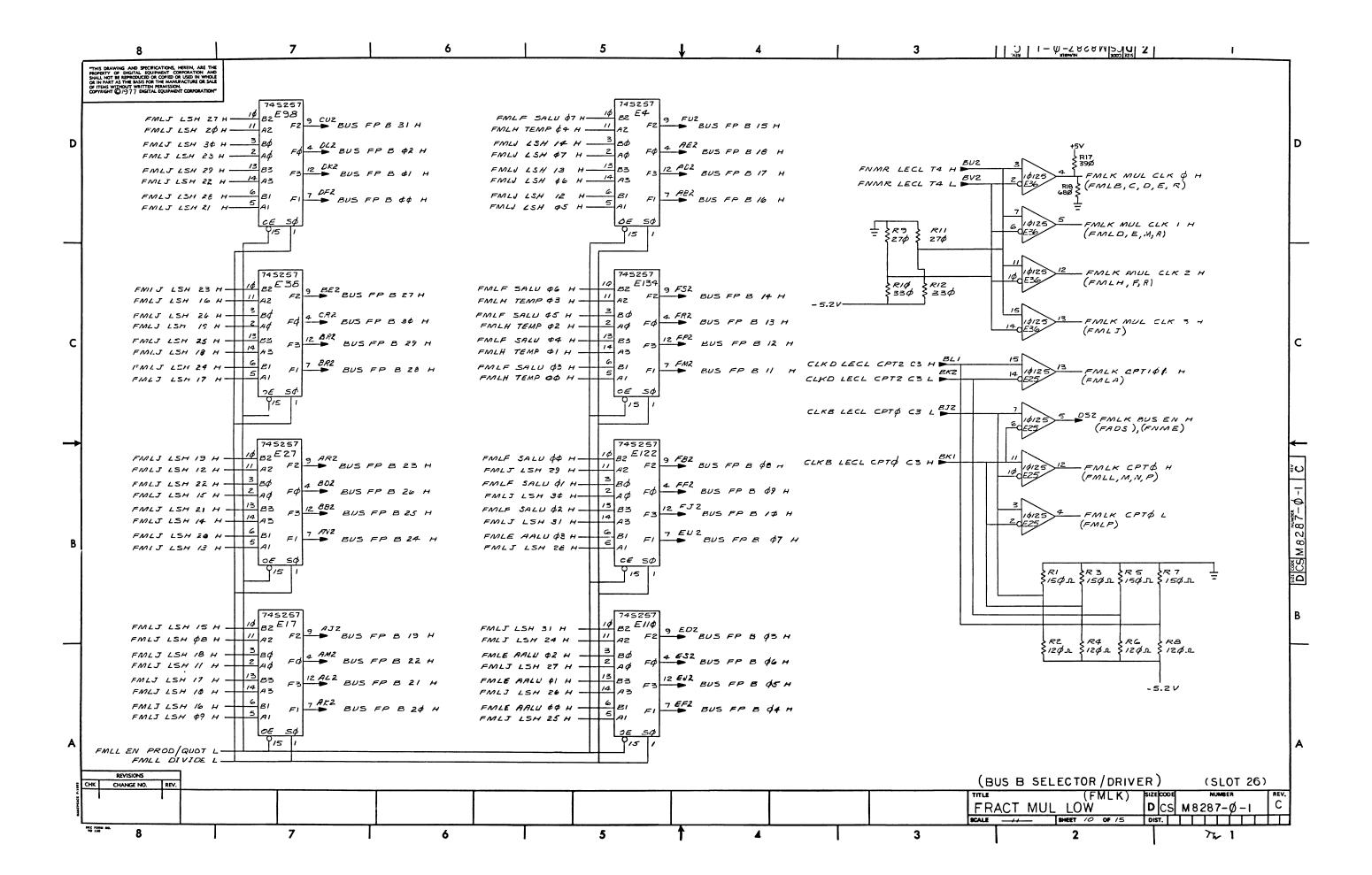


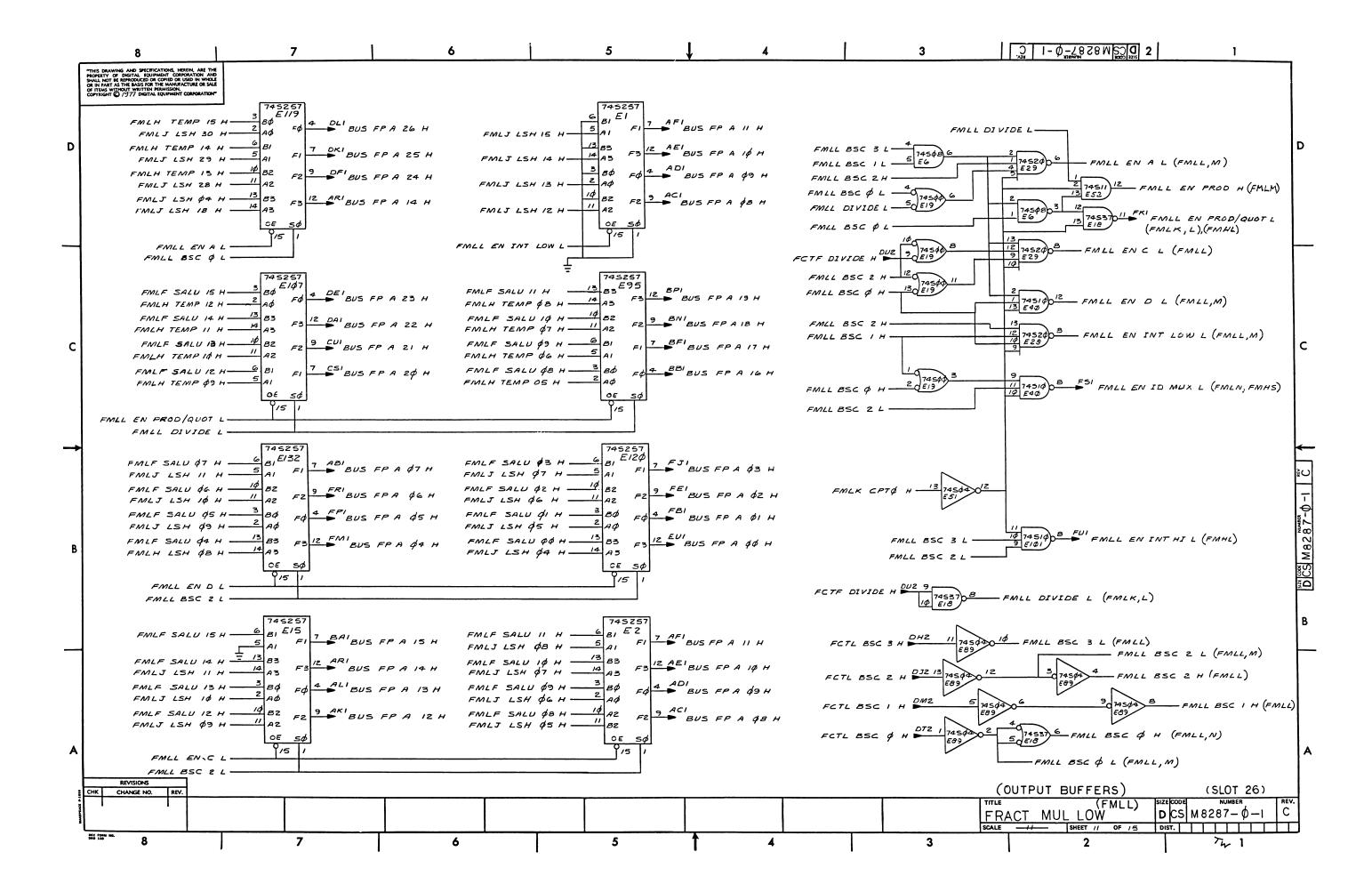


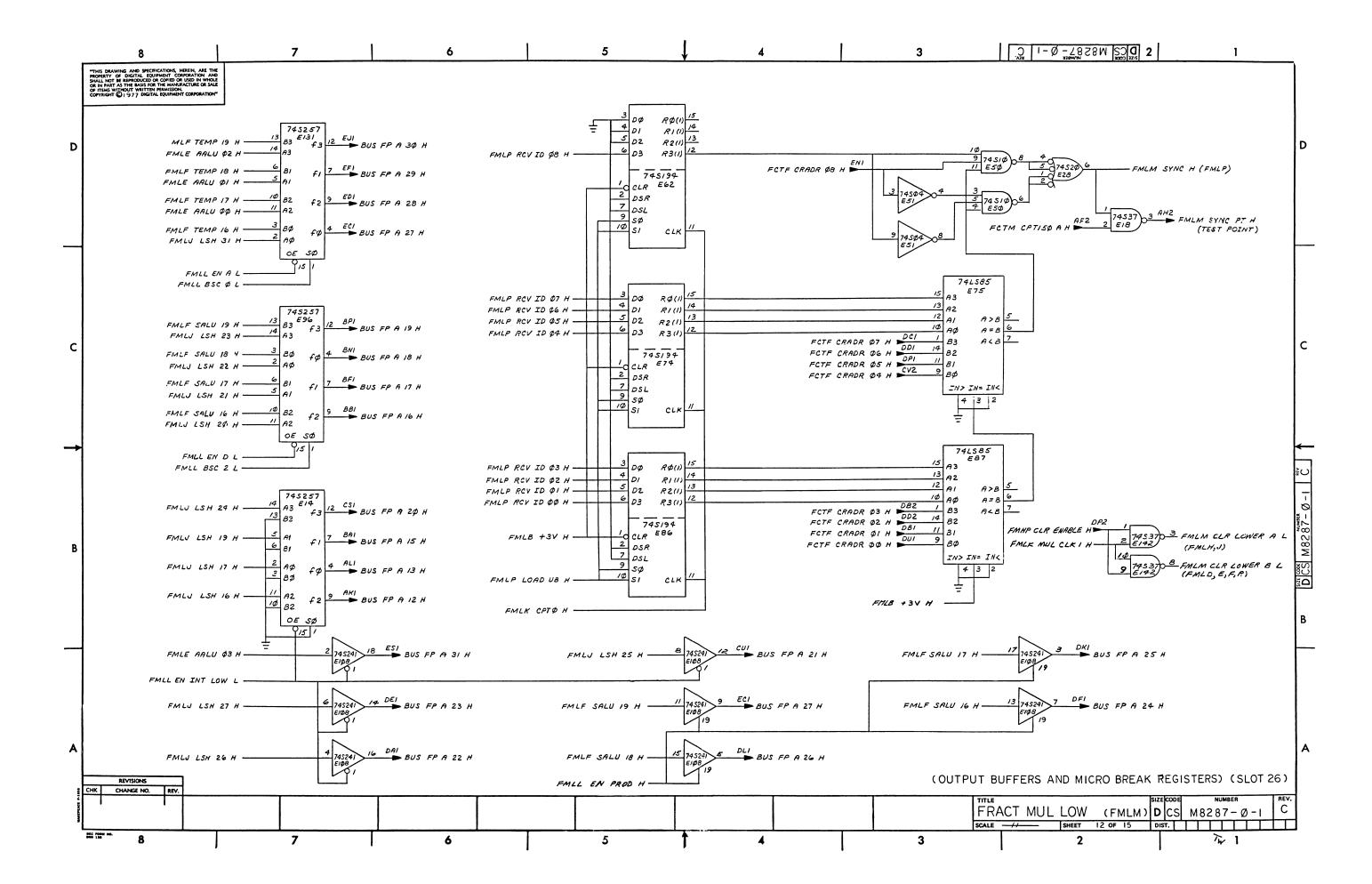


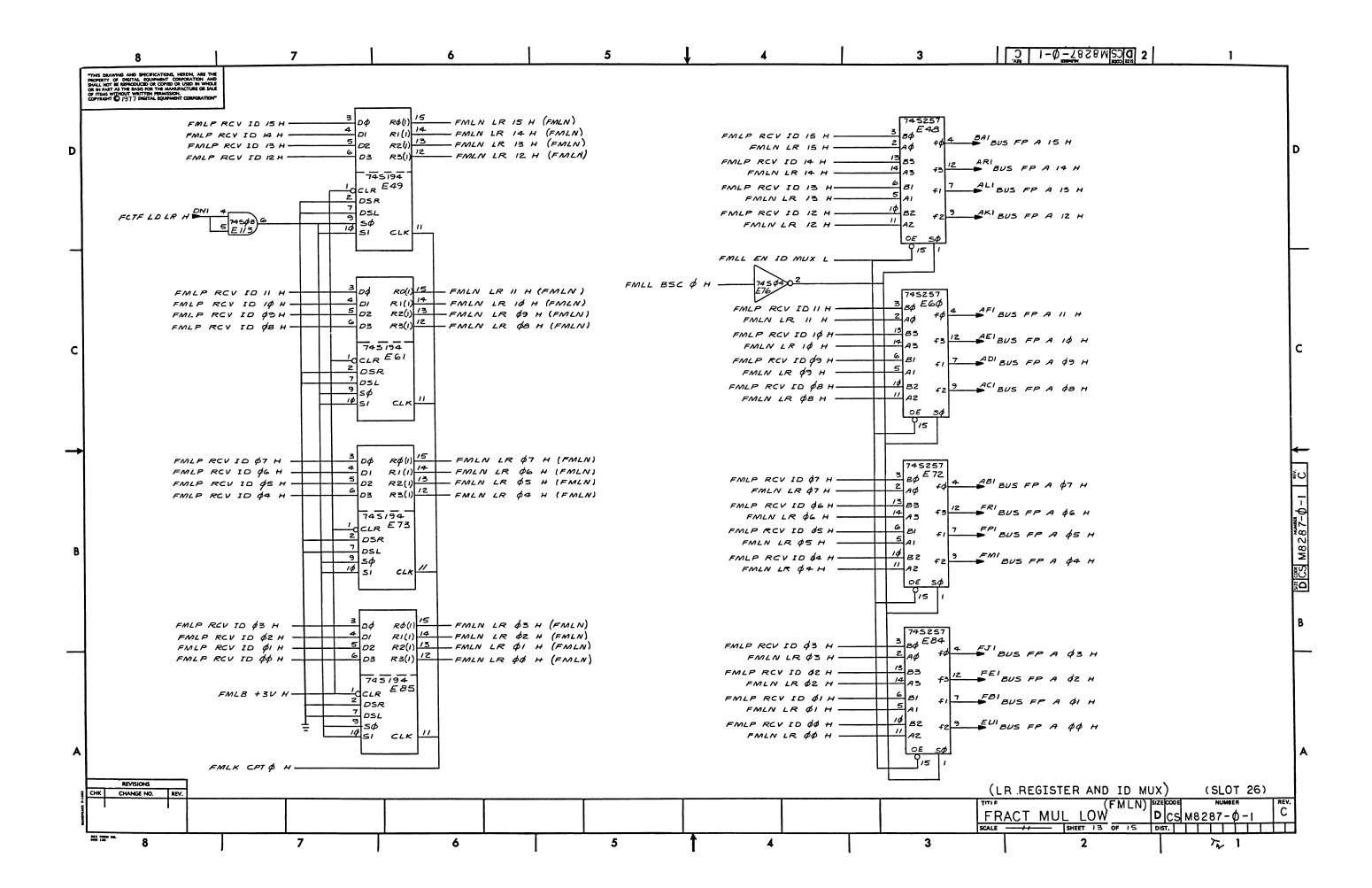


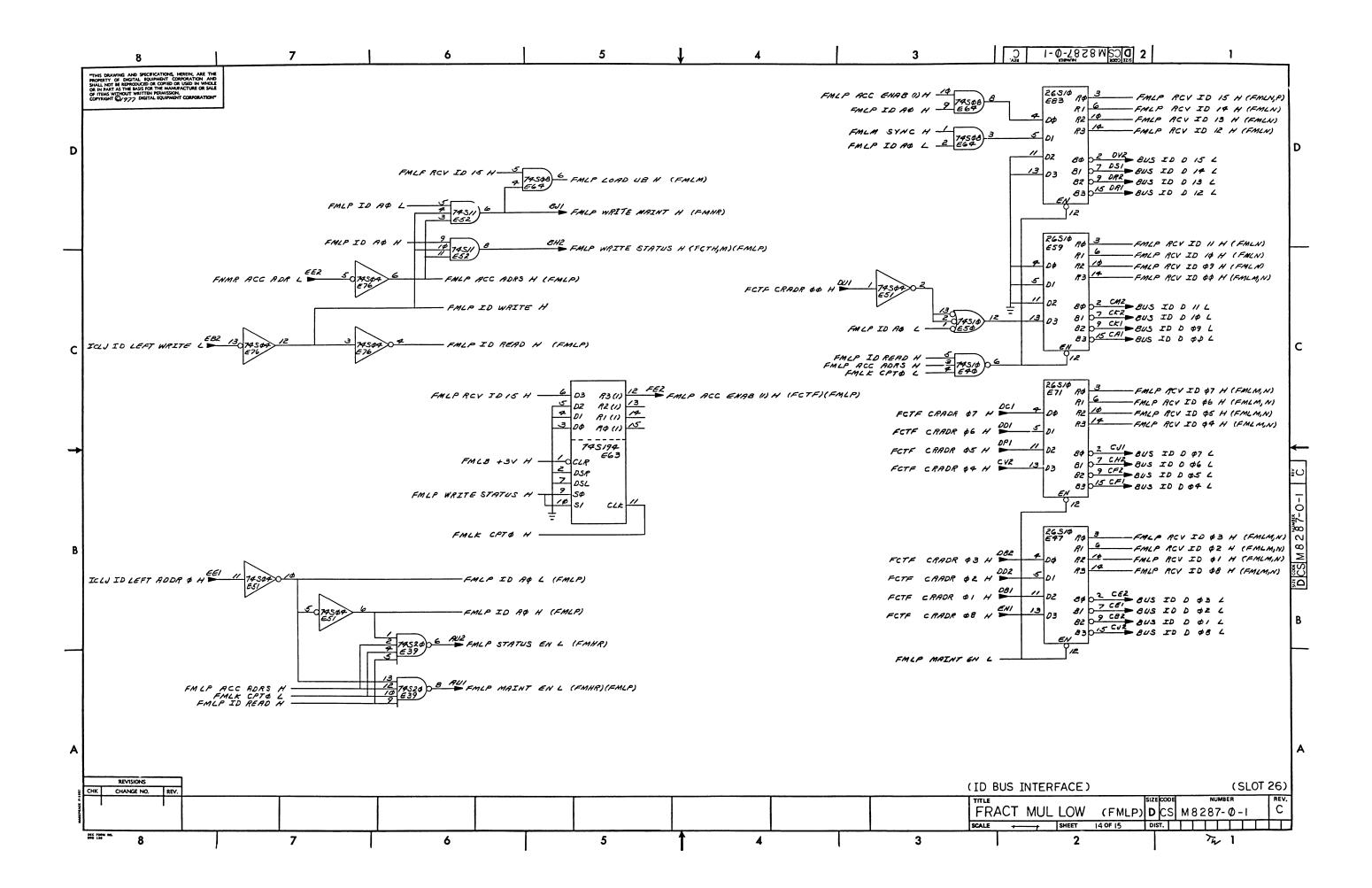


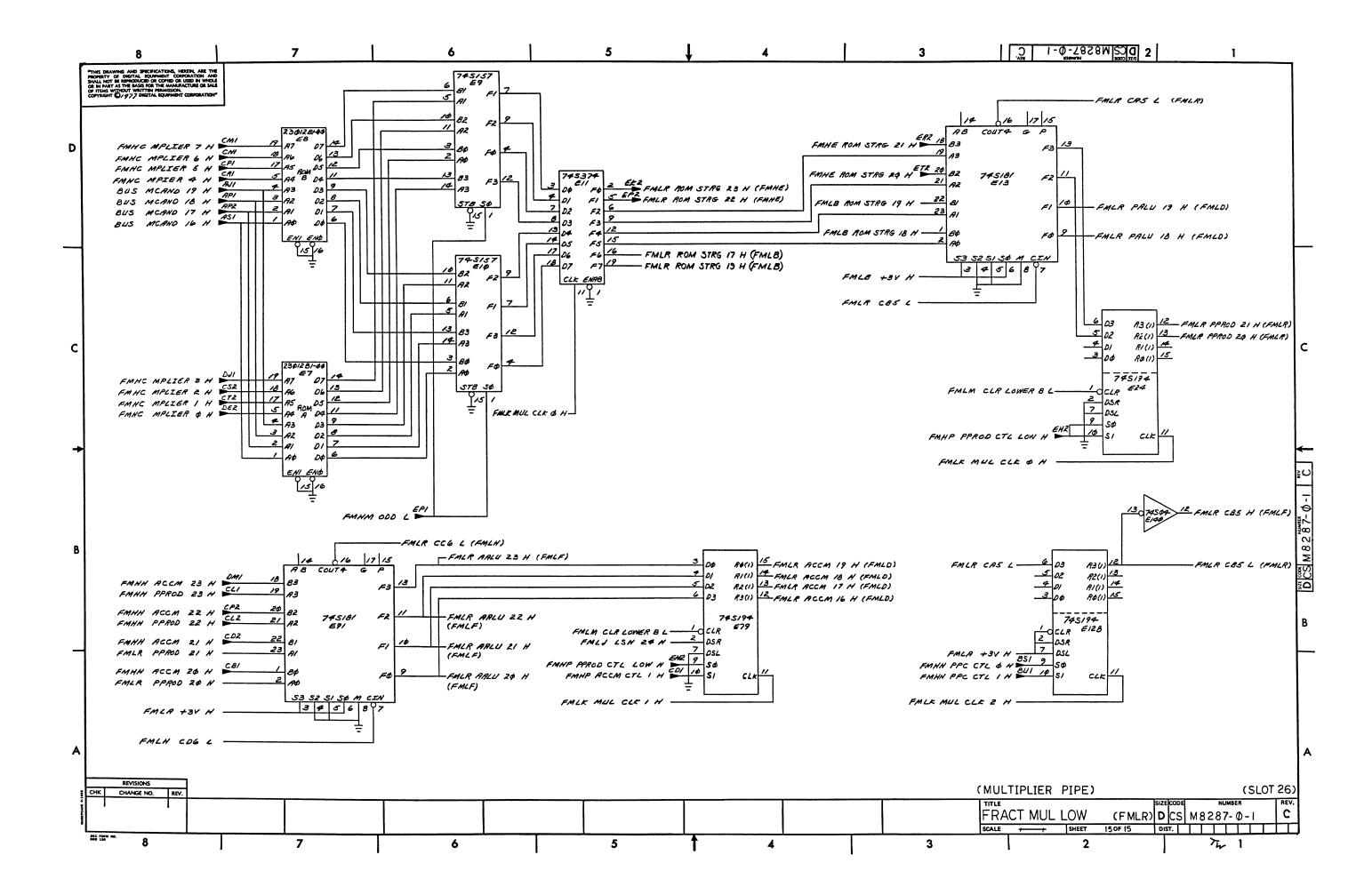








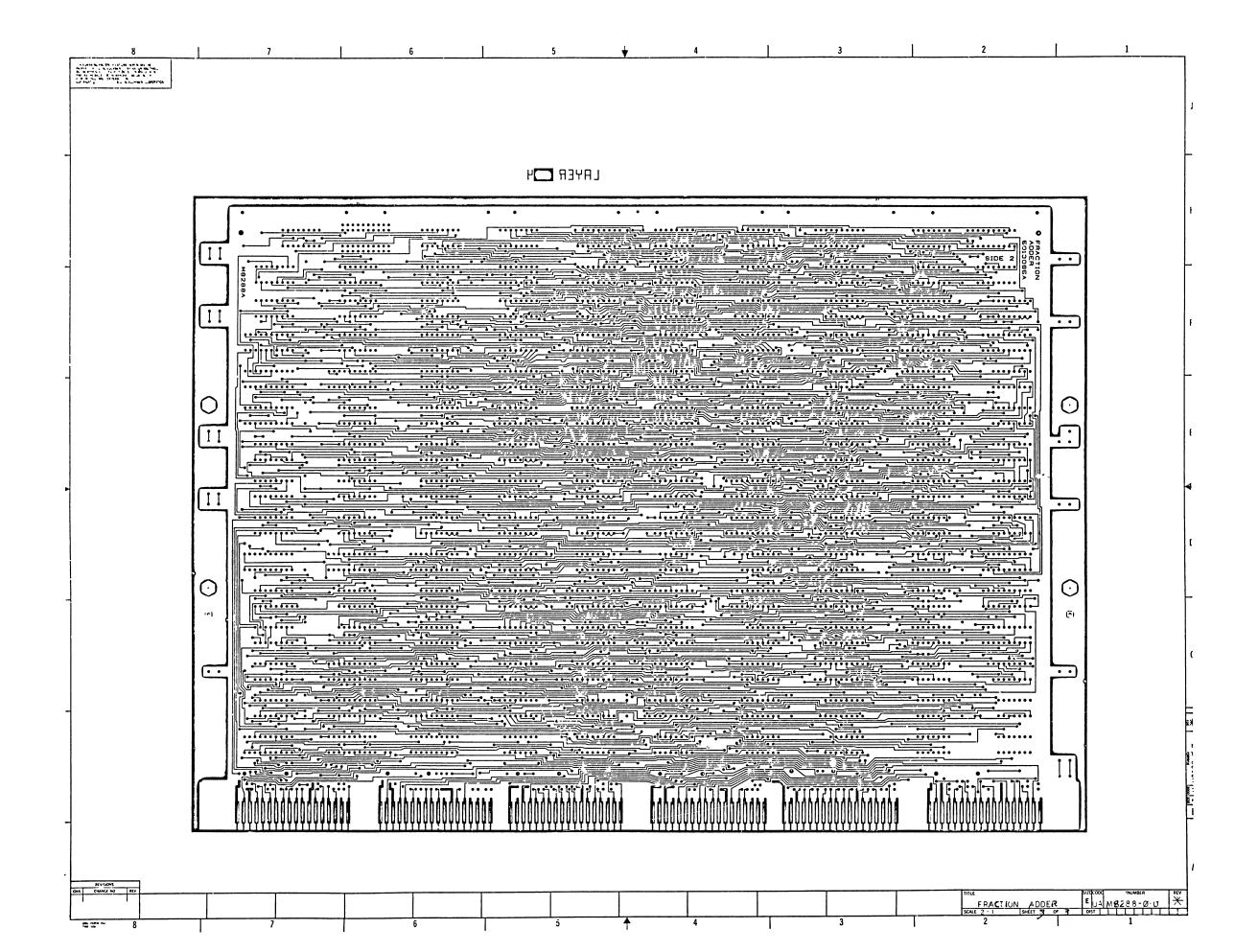




TITLE
FRA 10N ADDER
FRA 10N ADDER
SIZECOE
NUMBER
OA MAZES CO COMPONENT SIDE VIEW [+++++++++ Ee0 C++++++++ £15+ † E105 E150+ e E105 E90 E120 E30 1+++++++ • ⊕ ⊕ + 6+++++++ 6134 + .⊕ + + E104 + E104 + E104 ******* + ± €172 £149++ *E29+ E14 + #++ E59++ #+++++ E88 E74 ⊕ E44+ FFFFFFF θ_θ £1.48 B +++. ⊕[+++++++ +++++++++ E133 🕀 F183 ₽73+ ₽ + • + + EFF3 ⊕ €73 !++++++++ ⊕ ⊕+ E42+ * + [++++++++} ++++++++ + . + #152 + ++8+ ⊕⊕ +<u>+++++++</u> E117 £ £57 + 1 E147 + E12, E42 E27 + !<u>+++++++++</u> +++++++ L++++++++++ B ++++++ † +** ⊕⊕ ⊕⊕ + ⊕ ++ B 4+++++++ ө [+++++++ [++++++++] [++++++++] †********** + ₄5131 # E101 # # # E E7@ @ E146 + E116 ++++++++ +++++++++++ ++++++++++ E148 ++++++++++ + 8 EBS ₽ £65 + +++++++ 67++++++ _ ⊕• 6 ++ B ⊕ ⊕ +⊕ *** * + + F #54 , E9 + 1 +E1#4 #+ ++ + €39 ⊕, E69 Ean B B+ ⊕, +, ø ⊕ ⊕⊕ ⊕ ⊕ ө⁺+⁺+ + **. ⊕⊕** 87 F484 ******** ****** E1139 ++ E98 A E20 ++++ *** E127⊕ 5 + E82 E52 + £ #7+ £142++ E97 **6**37**⊕** ++++++++++++ ++ ++++ . : †a e[®]a 5 + E12¢ ⊕ E81, + [********* \$51 \$51 ® [++++++++++ E36 +++ + E2 1 6 + ⁶⁰+ 60 m ⊕ * ++_+ ∙ၞୄ୲ଽଽଽଽ E95 + + [⊕ ⊕E50 + ******* E5 + + ***+ *** + E20 + ± €140 + + **** **⊕** ⁺⊕+⊕ ⊕ 9 E34 + + \$ # E124 + B ************************ + F108 B ***** E#9 C++++++++ E1J9 + E14 ⊕+ # +E##+ ⊕⊕⊕ ⊕ + +₀+ +⊕ ⊕ £++ £3 ... # ⊕ + 600 ++ \$ ++ Ee2 + + + # E46 · | | +E[†]38 [†] Œ108 + €99 + €789 **9** ⊕ ⊕⊕ ⊕ ⊕⊕ E107 ****** +++++++ E47++ θ₁ θ₊ε+7 + E2 ++ 7 ⊕⊕ Ę32 + . e **2** ⊕ 276 KCHUNCE NO BEA + E181 B B Tespe -\$ ++ E37 + ******* 276 ++ 61e++ ⊕ ⊕ E13e ⊕⊕ ₩ ++C6 A GS A * + * C++ 6 * + ⊕ + ் ++++ ‡+ ⁺++ ++ ₇+;;,+ +;;@,₽,,[™], ₽,₽ +;;°; A PRINCIPAL MANAGEMENT OF THE PRINCIPAL PRINCI VUTSRPNMLKJHFEOC8A VUTSRPNMLKJHFEOC8A VUTSRPNMLKJHFEOC8A VUTSRPNMLKJHFEOC8A VUTSRPNMLKJHFEOC8A VUTSRPNNLKJHFEDCBA E UA M8288- 04 *

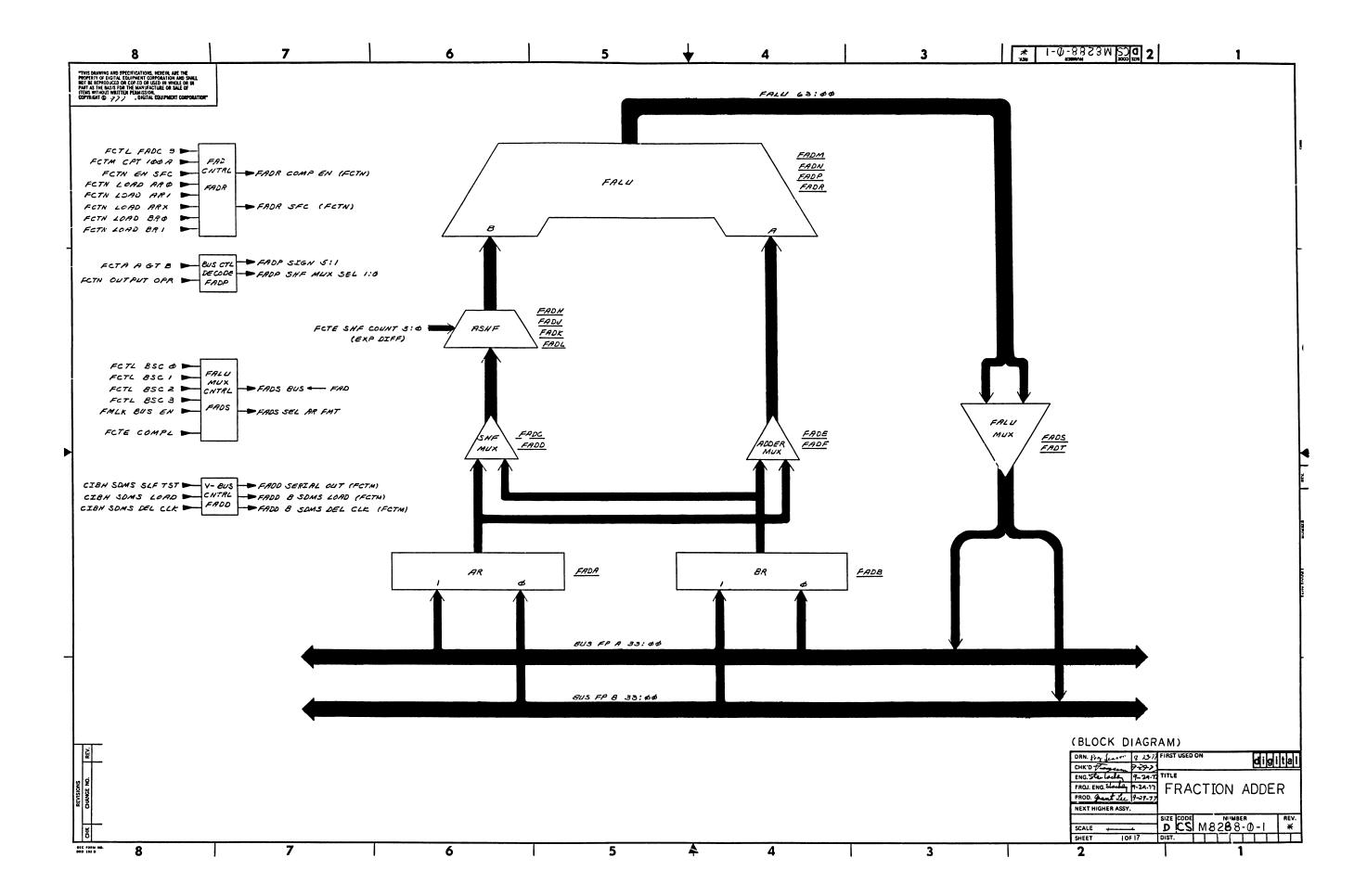
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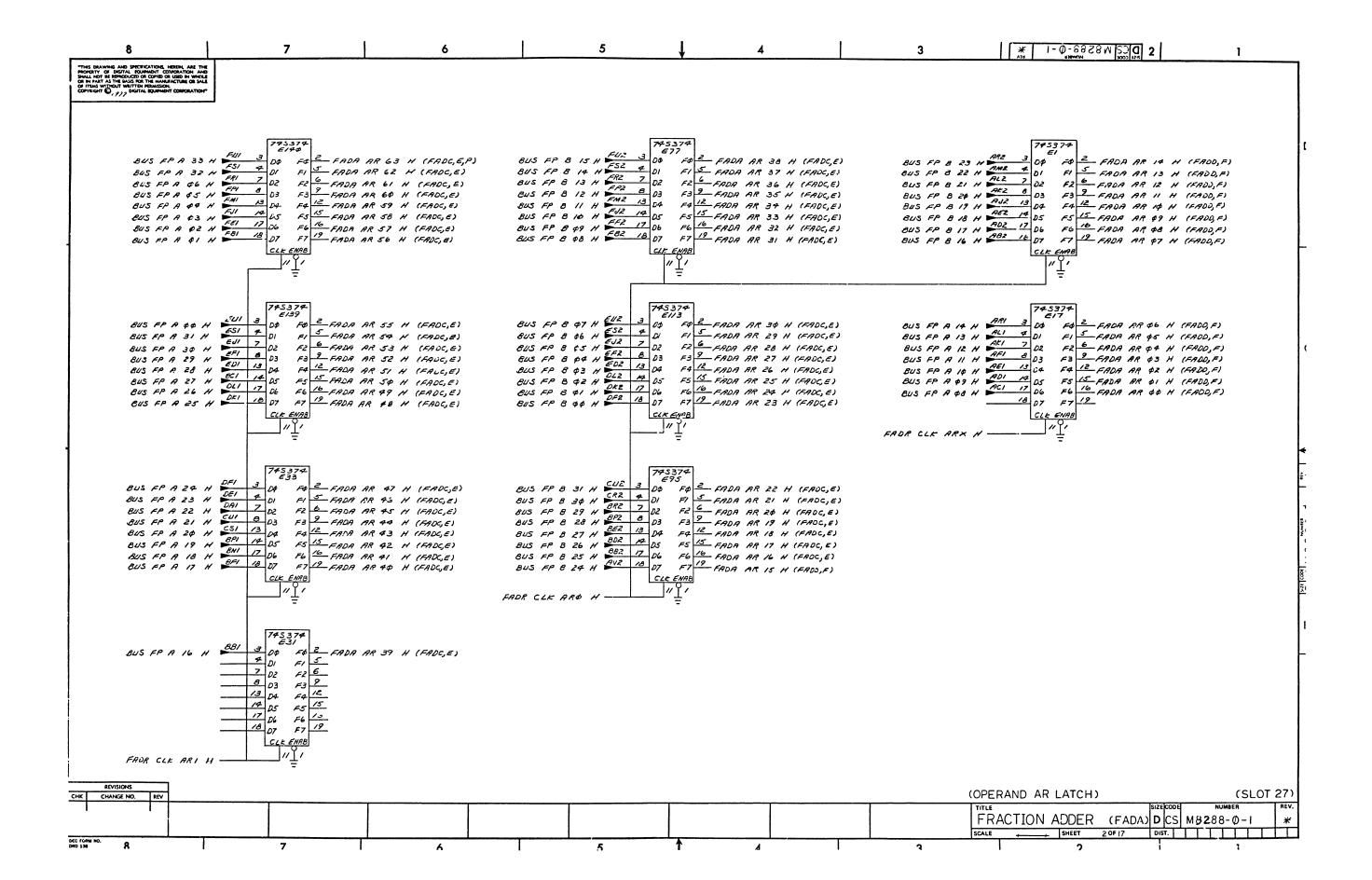
6013086A LAYER I CS#ABCDEFH!KLMNPRS digital E90 E136 IIIIIIIIII •• · · · . . \odot $\overline{\Box}$ ••• • • \odot \odot <u></u> رة، \odot •• CHIK CHANGE NO REV E UA M 8 2 9 6 - Ø · Ø FRACTION ADDER

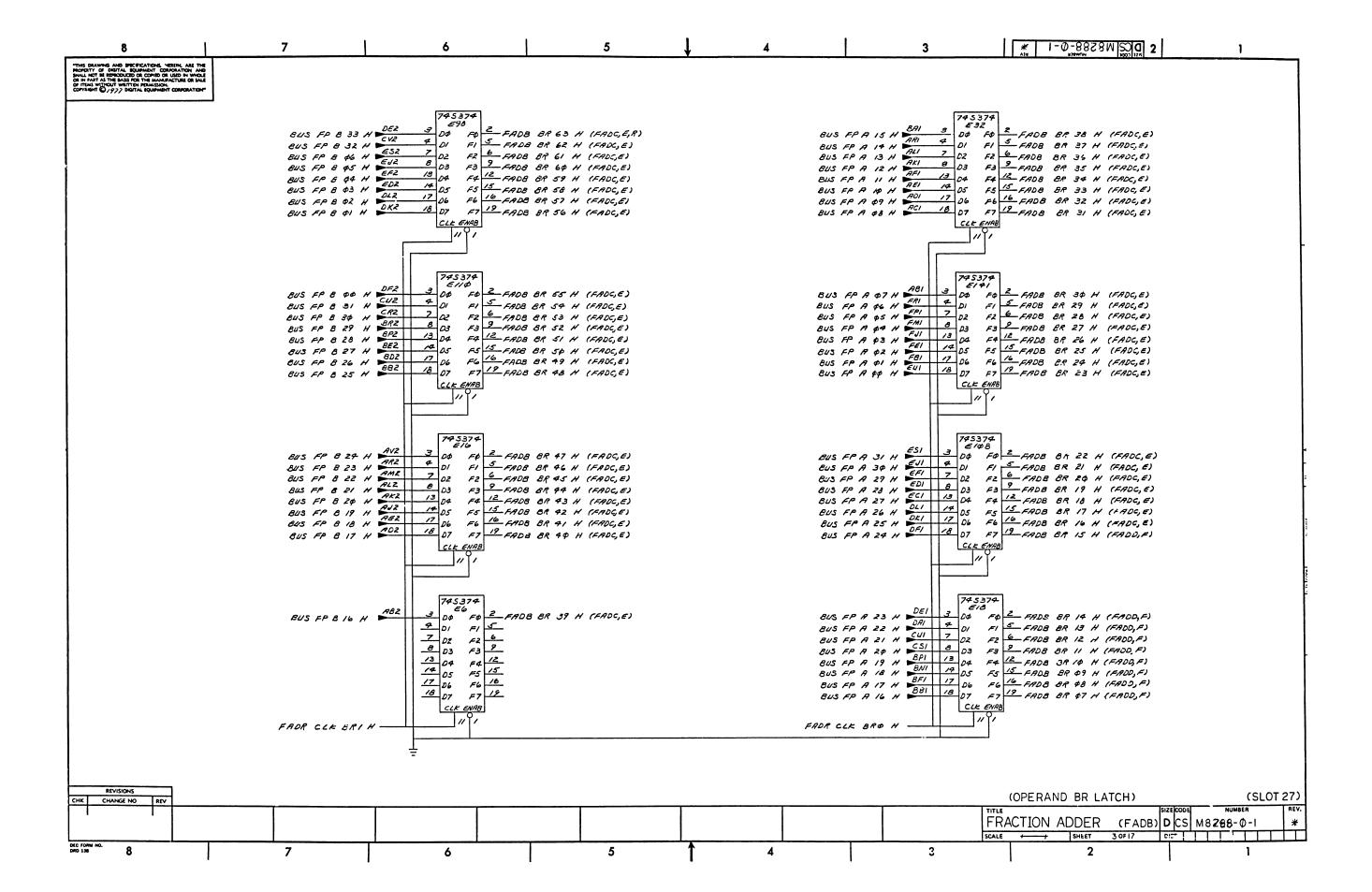


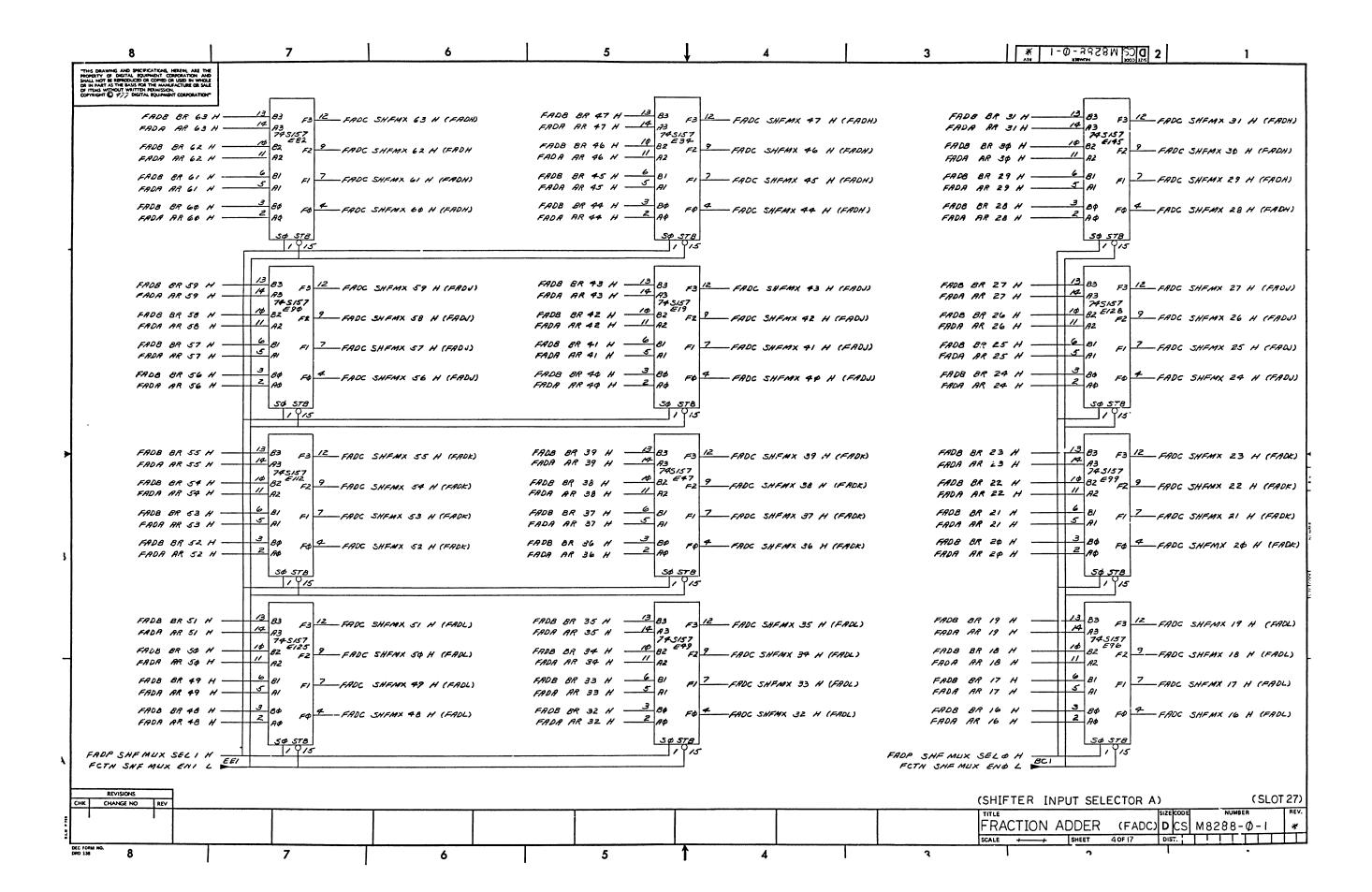
	DIGITAL		IT CORPORATION		QUANTITY / VARIATION	
MADE BY D. BILODEAU DATE 27 JUNE 77 ENG DATE Slackey 9-30-77 PROD DATE PR				288-Ø-Ø		
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M87	REF DE	SIGNATION
1	D-MD-5013085-0-0	5013085	ETCH BOARD			
2		1012784	CAPACITOR, .047 uf 50V	33	C1,C8 thru C24,C2	26,C28 thru C31,C34 thru
3		1012084-01	CAPACITOR, 8 uf 25 W	6	C2 thru C7	
4		1301890	RESISTOR, 560 OHM, 1/4W, 5%	2	R3,R4	
5		1301972	RESISTOR, 270 OHM, 1/4W, 5%	2	R1,R2	
6		1910532	I.C. DEC 74SØØ	3	E106, E121, E137	
7		1910534	I.C. DEC 74SØ4	1	E91	
8		1912389	I.C. DEC 74SØ8	1	E136	
9		1910536	I.C. DEC 74S1Ø	1	E94	
10		1912746	I.C. DEC 74S37	2	E79,E81	
11		1910541	I.C. DEC 74S4Ø	1	E122	
12		1910545	I.C. DEC 74S112	1	E76	
13		1910548	I.C. DEC 74S157	32	E47,E49,E62,E64,	E22 thru E25,E34,E35,E39, E82,E90,E96,E99,E105,E111, nru E129,E145,E146,142
14		1913839	I.C. DEC 74LS165	3	E107,E109,E115	
15		1912097	I.C. DEC 74S182	5	E13,E66,E86,E117	,E135
16		1911641	I.C. DEC 74S257	17	E5, E7, E8, E4, E48, E92, E123, E124, E1	E61, E63 ,E 7 4,E7 5 ,E78,E93, 38, E 14 4 , E 143
1/		1913671	I.C. DEC 74S374	17	El, E6, E16, E17, E1 E110, E113, E108, E	8,E31,E32, E33, E77,E95,E98 139,E140,E141
18		1913700	I.C. DEC 74S381	16	E10,E11,E12,E21, E130 thru E133,E	E26,E36,E80,E97,E65,E120, 147,E150
E.C.O. NO.						ANIMOTO DE L'ACTUAL DE L'ACTUA
CORP AS TH	DRAWING AND SPECIFICATIONS, HER ORATION AND SHALL NOT BE REPROD IE BASIS FOR THE MANUFACTURE OR RIGHT © DIGITAL EQUIPMENT	DUCED OR COPIED OR US SALE OF ITEMS WITHOUT	ED IN WHOLE OR IN PART FRACT	ION ADDER	ASSY NO. E-UA-M8288-Ø-Ø SHEET 1 OF 2 INSERTION PARTS LIST DATA B	NUMBER REV. 288-Ø-Ø *
JUP 11	11101110				OTILLI - OT - INGLITION AND LIST DATE	··

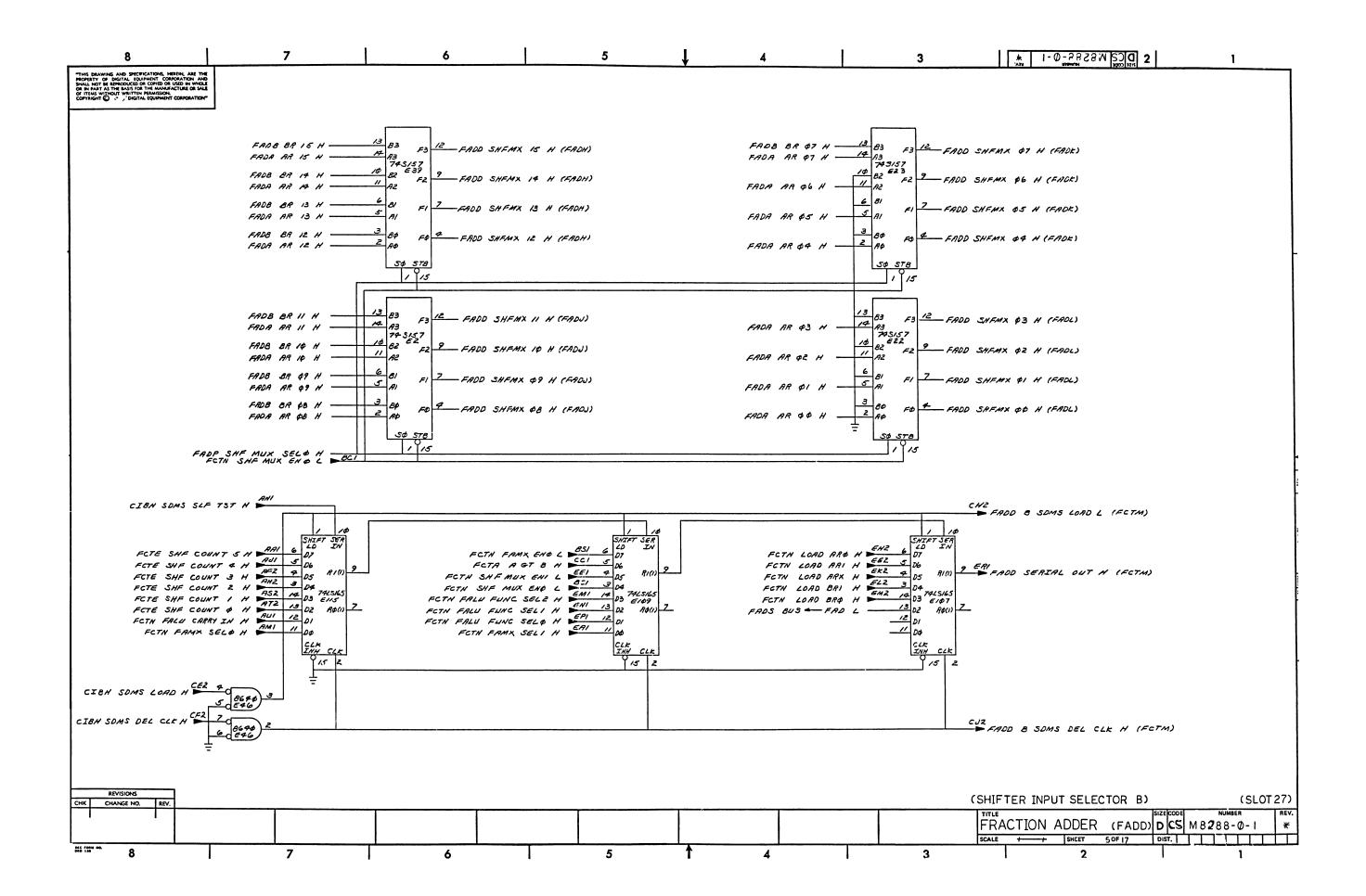
DIGITAL EQUIPMENT CORPORATION PARTS LIST						QUANTITY / VARIATION					N		NOTES:				1
MADE BY DATE ENG DATE	27 JUNE 77 Lochay 9-30-77	CHECKED Grands 9 PROD Make III	1 Smar + SECTIO 127-77 ISSUED	,	M8288-Ø-M												
NO.	DRAWING NO.	PART NO.	DESC	RIPTION	Σ				-				_	REF DE	SIGNATION		_]
19		1911469	I.C. DEC 8640	1	١								E4	6			
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21		1210711-02	HANDLE	1	١								E8	3,E84.E85,E87,E 16,E118,E119,E	88, E89, E100 th	ru E104	ı
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	FOR THE MANUFACTURE OR SA	ALE OF ITEMS WITHOUT V		FRACTION	מטא	ER		SI	D-UA IEET	-M828	0F	2		TION PARTS LIST DATA BA	3288-Ø-Ø .se rev	<u></u> *	\dashv

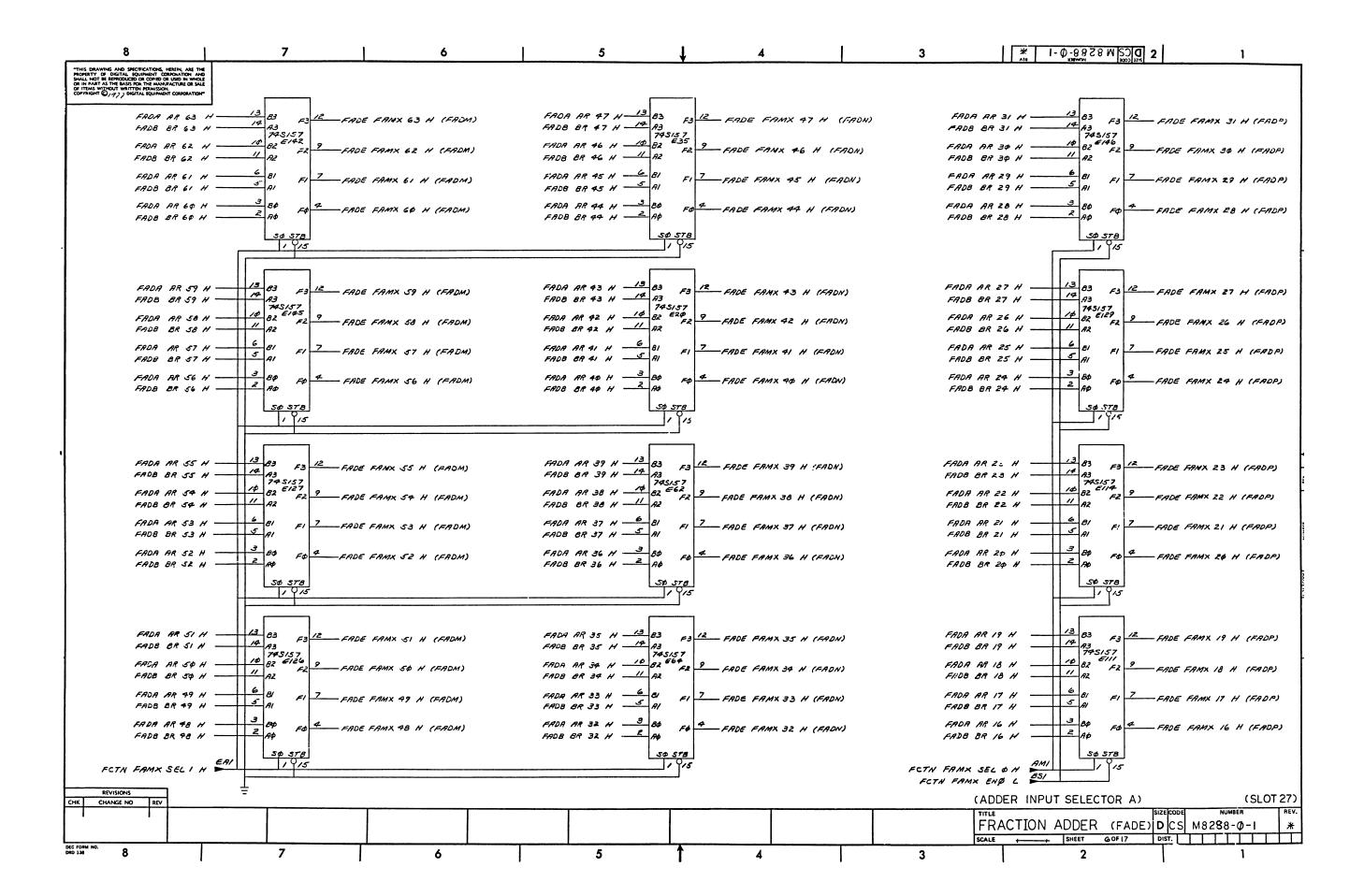


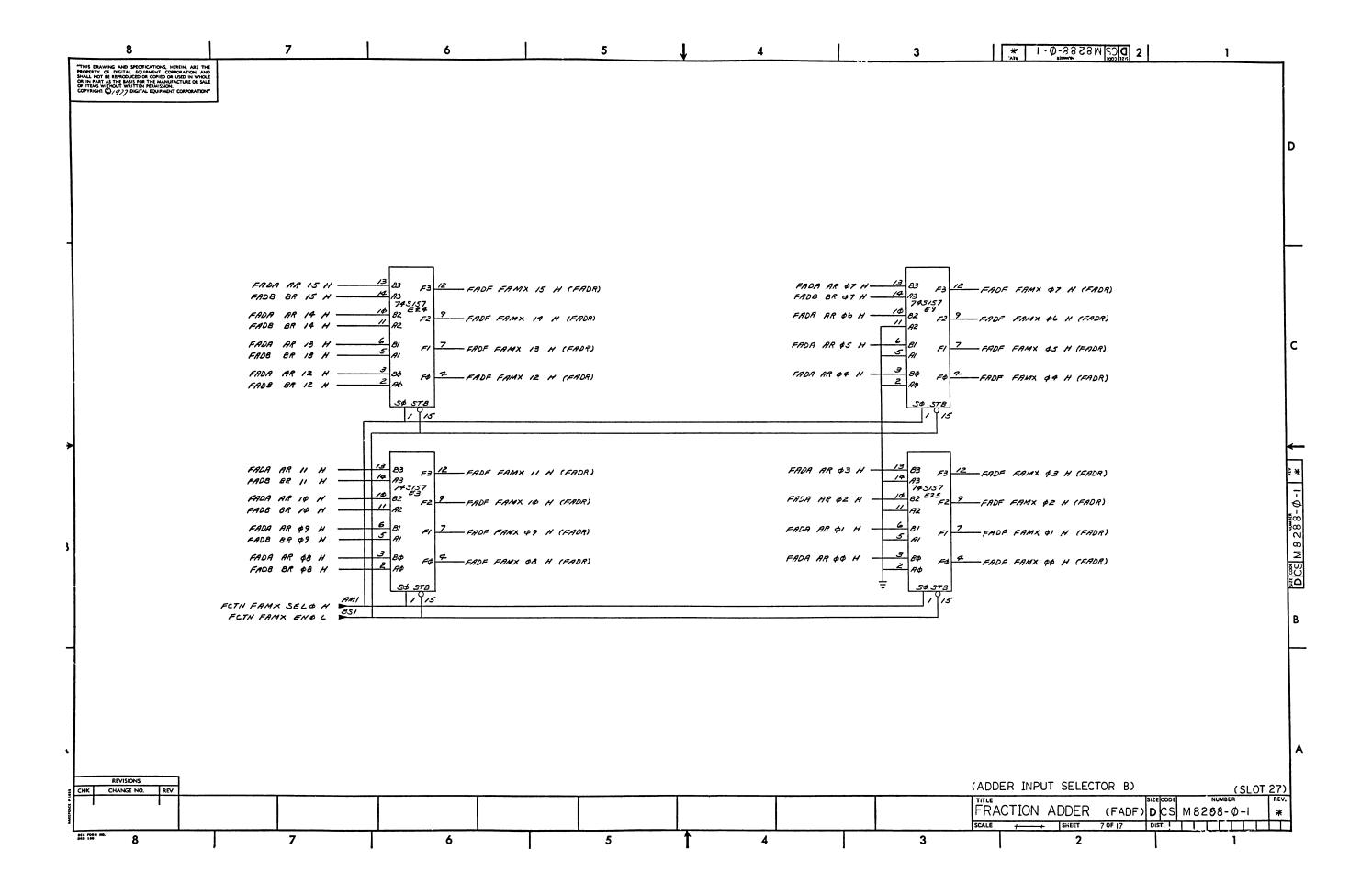


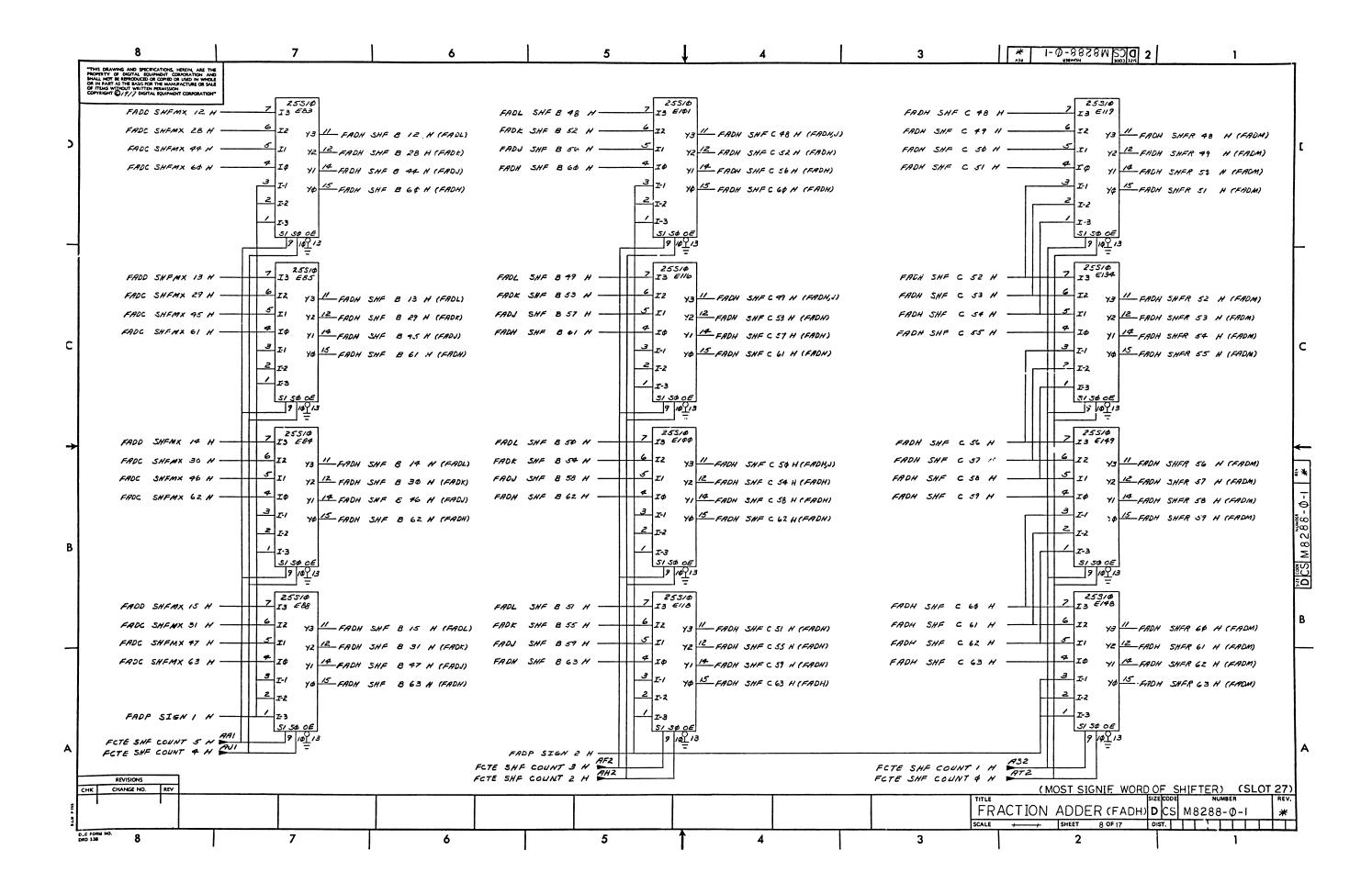


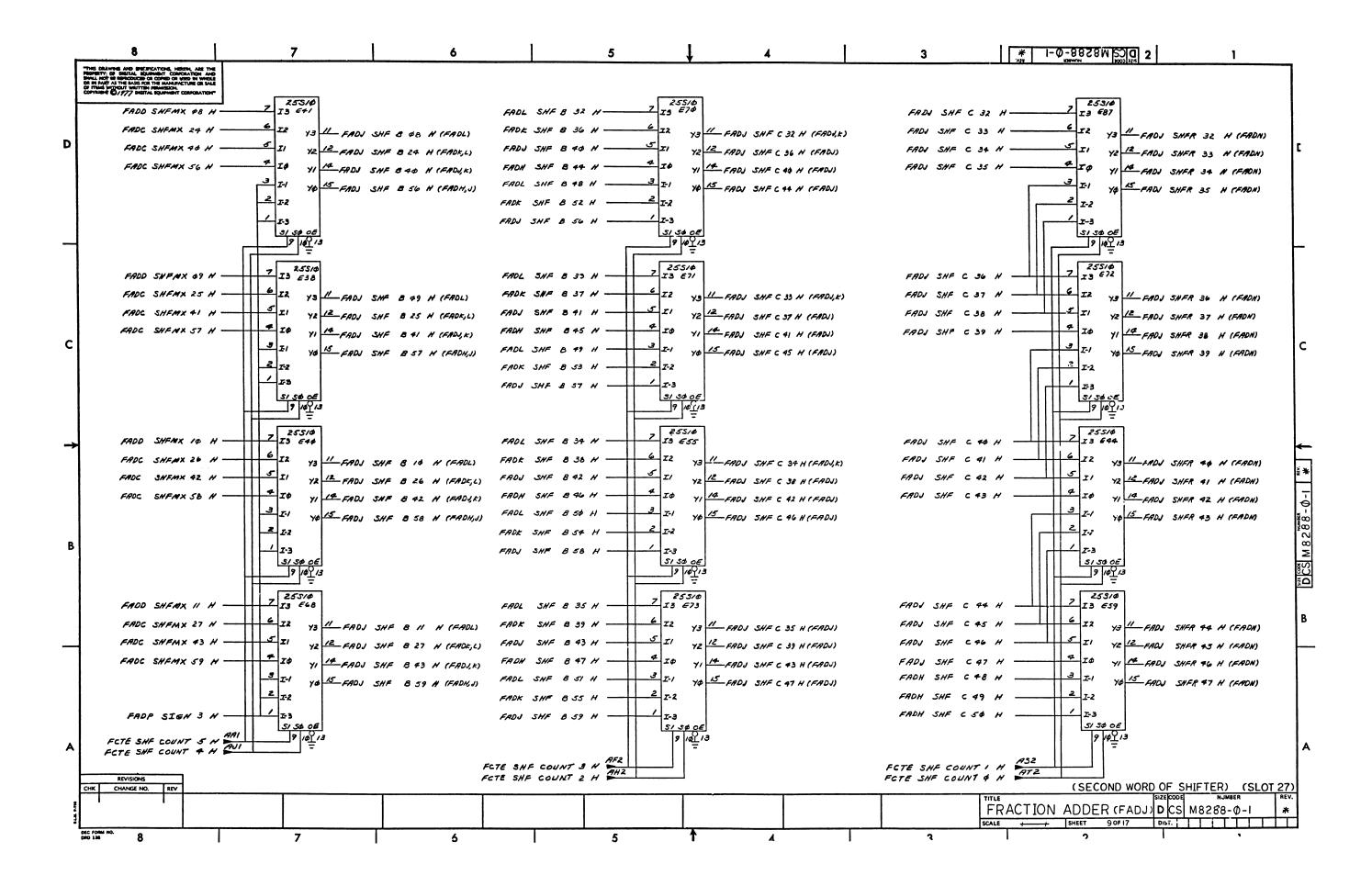


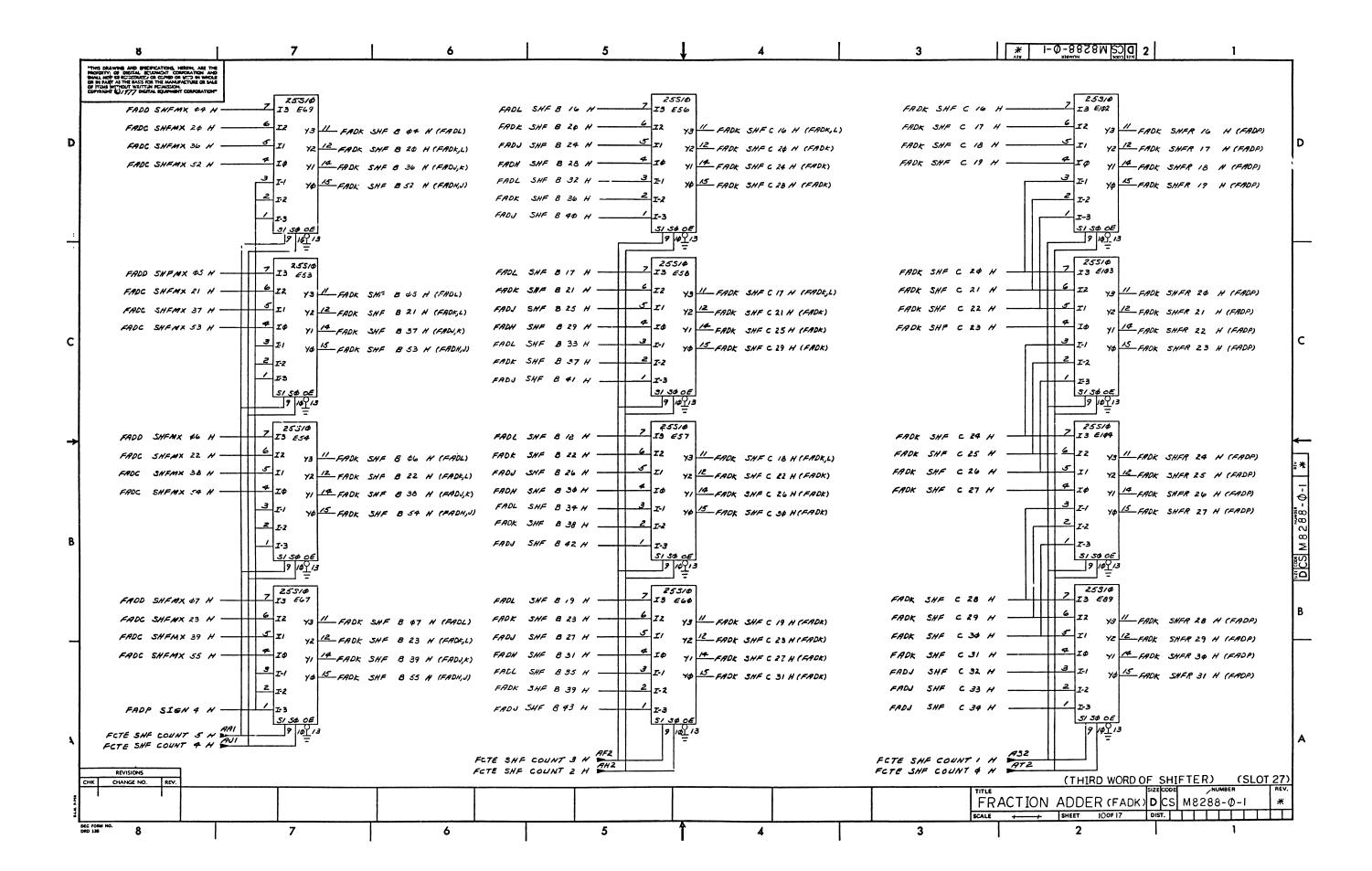


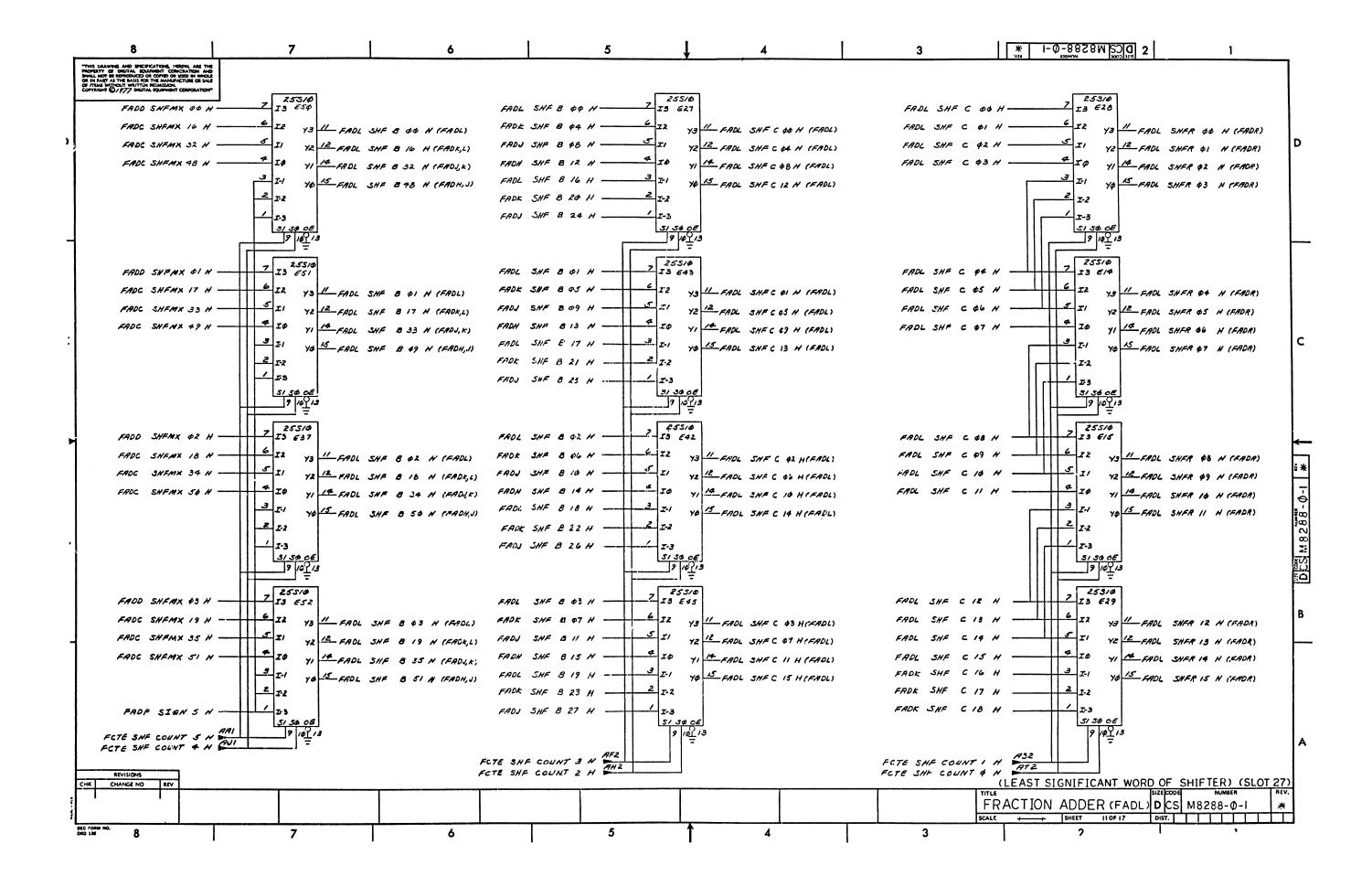


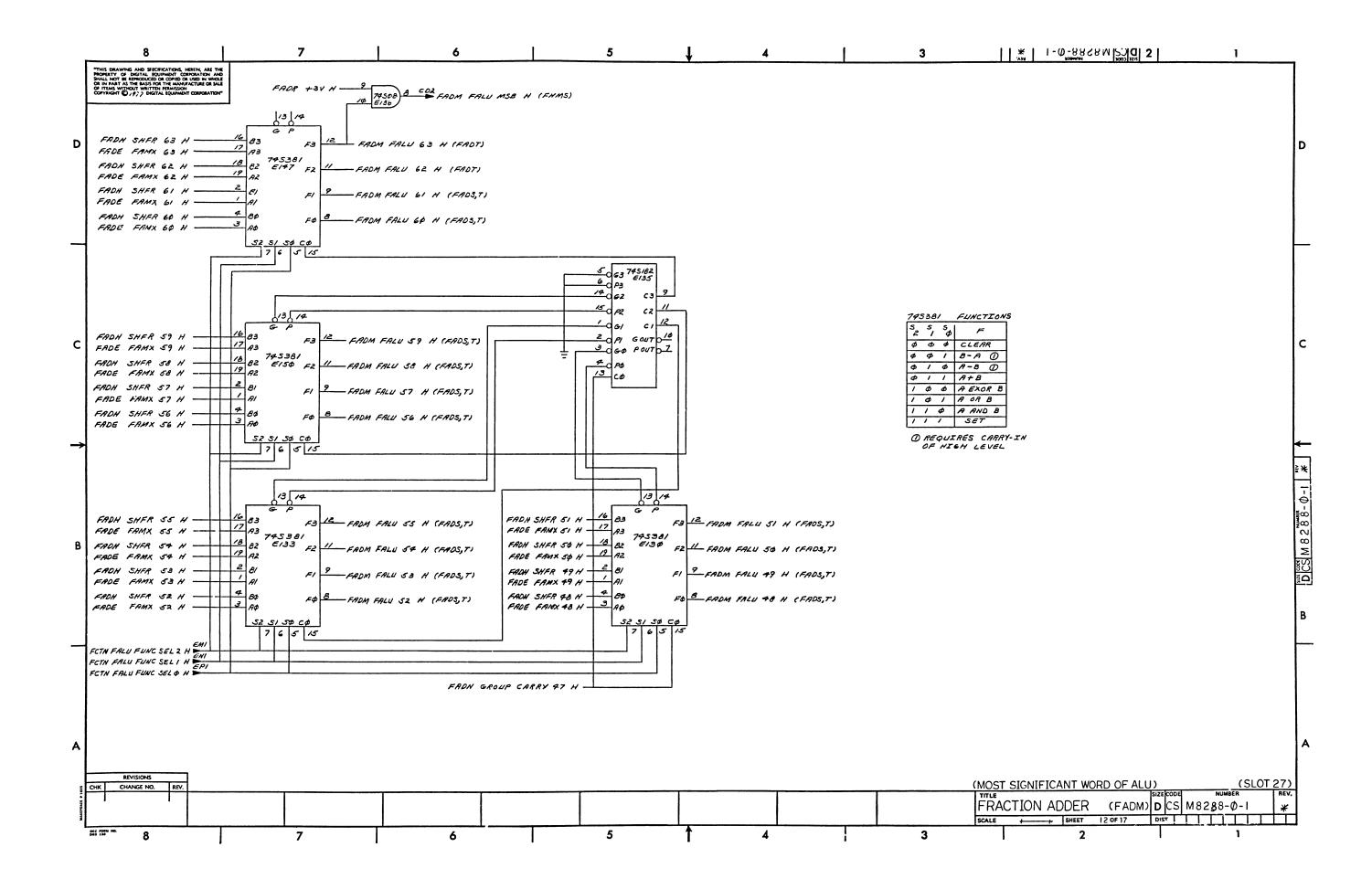


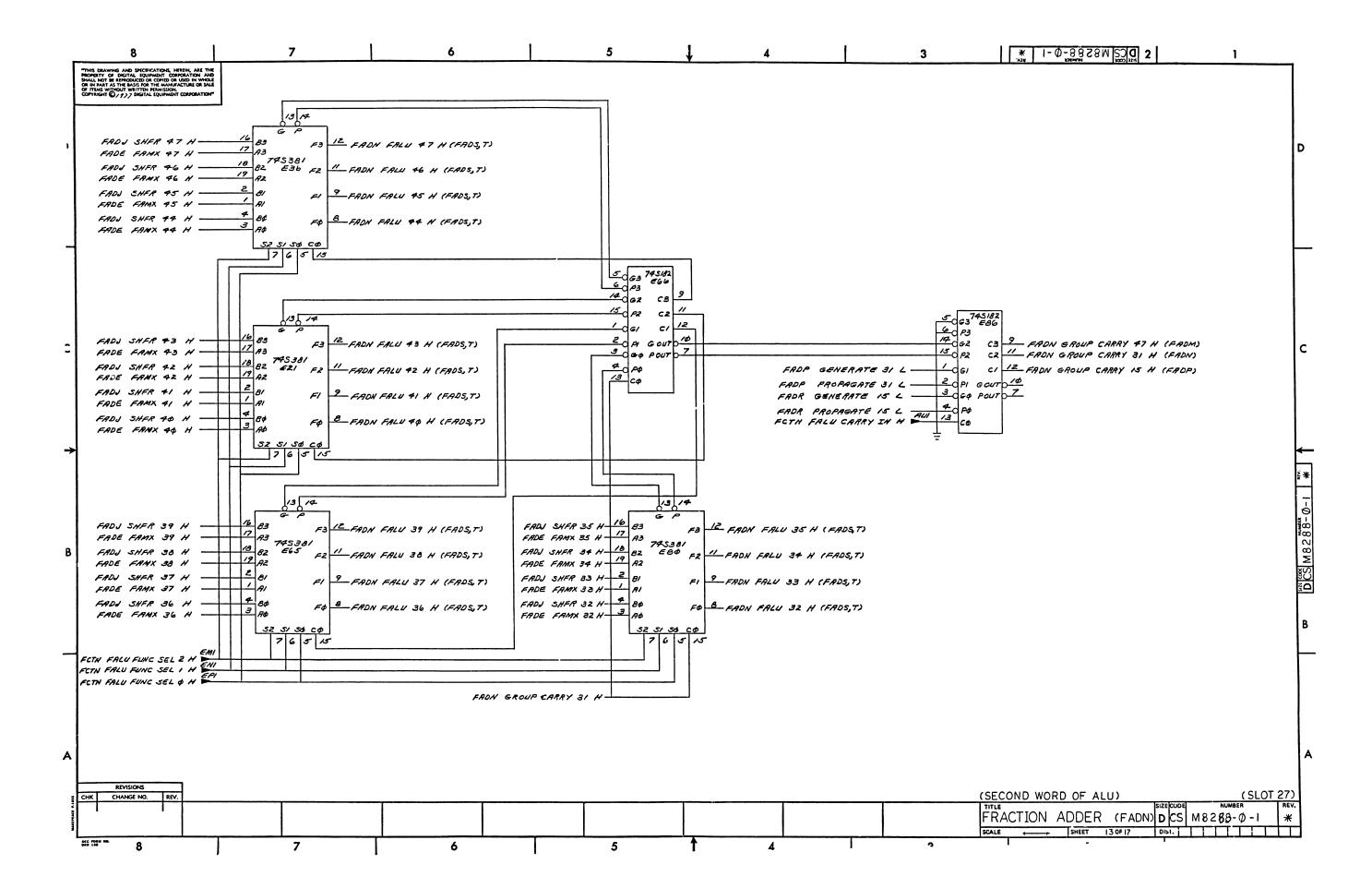


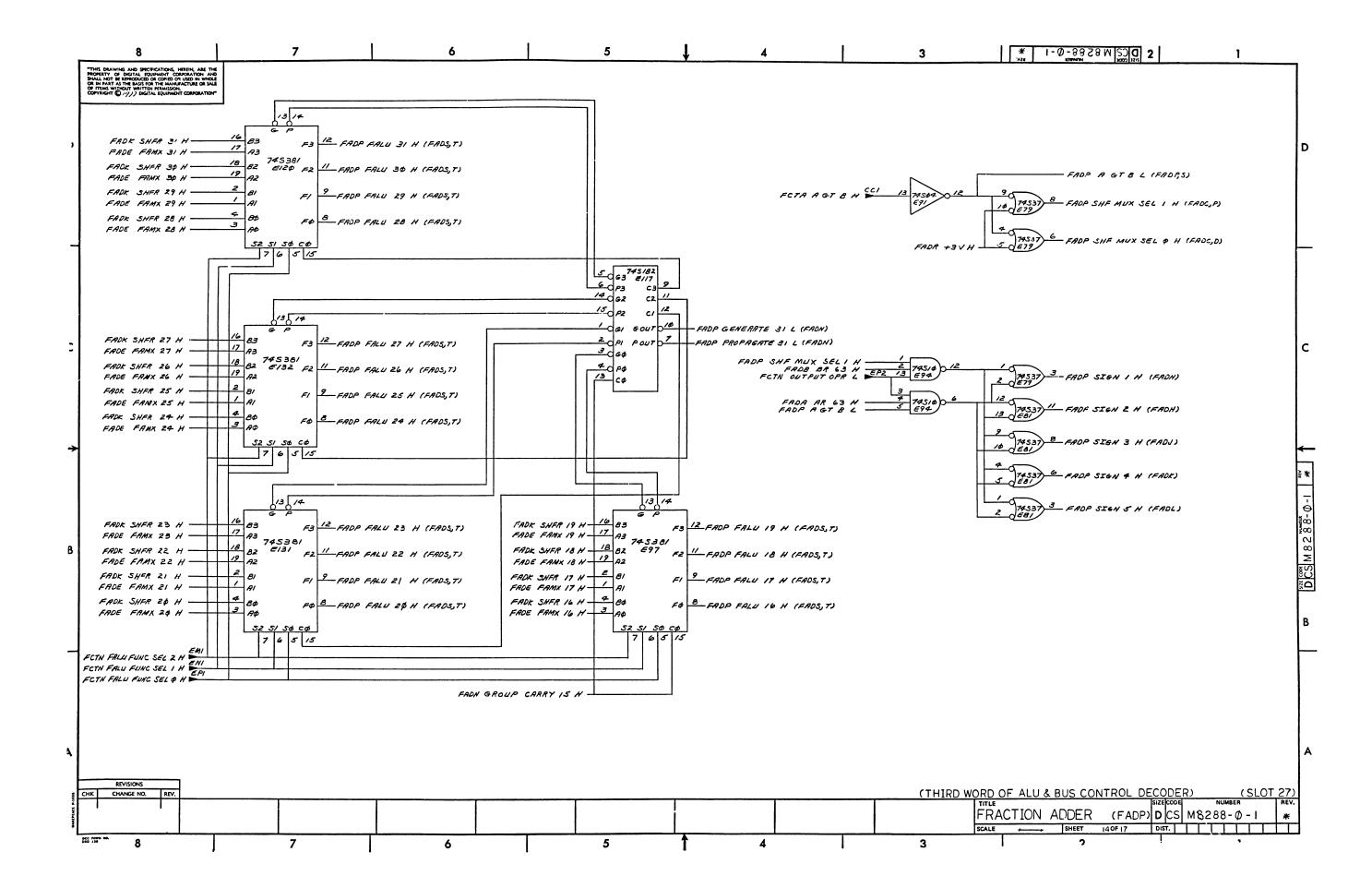


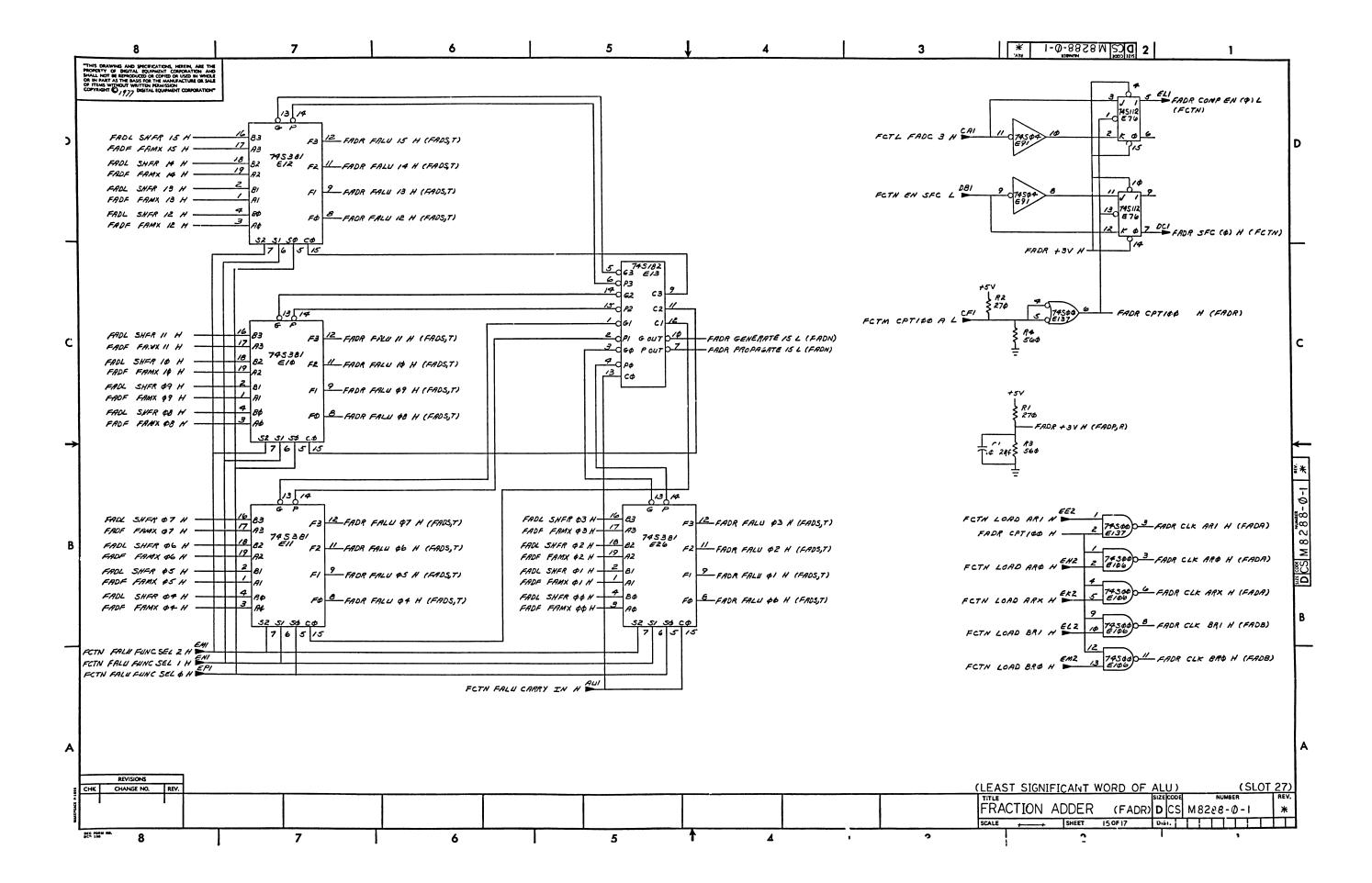


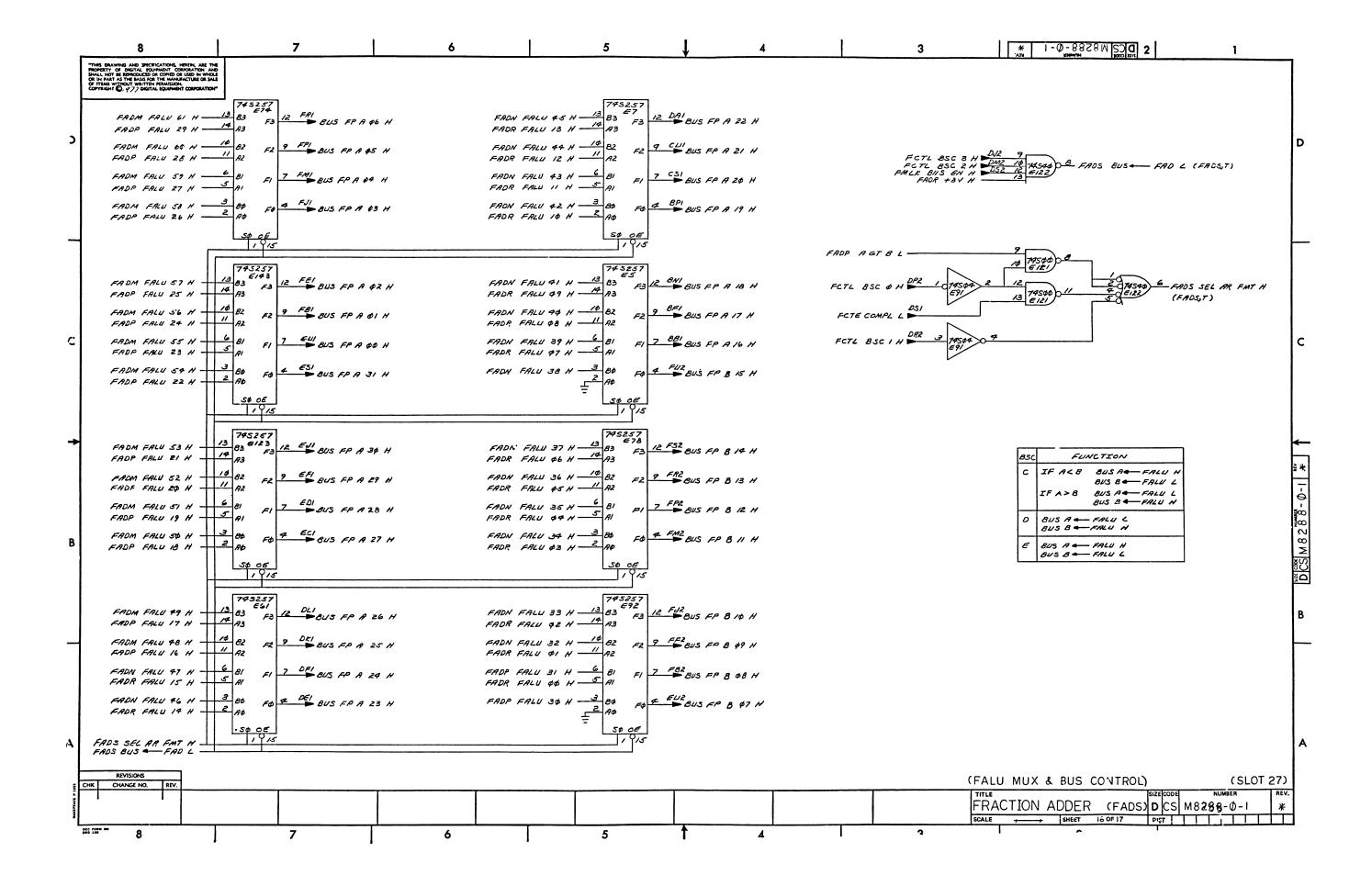


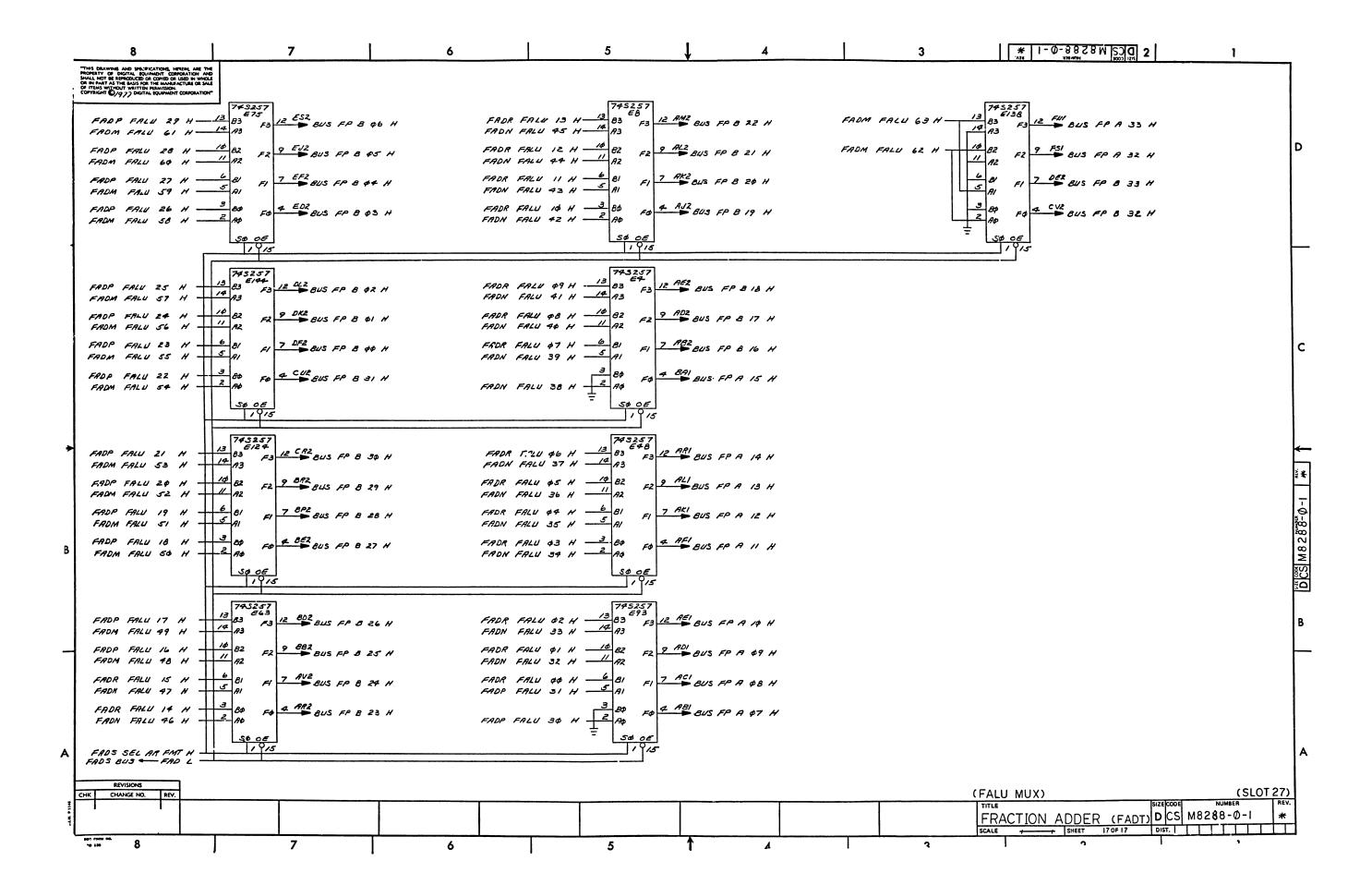


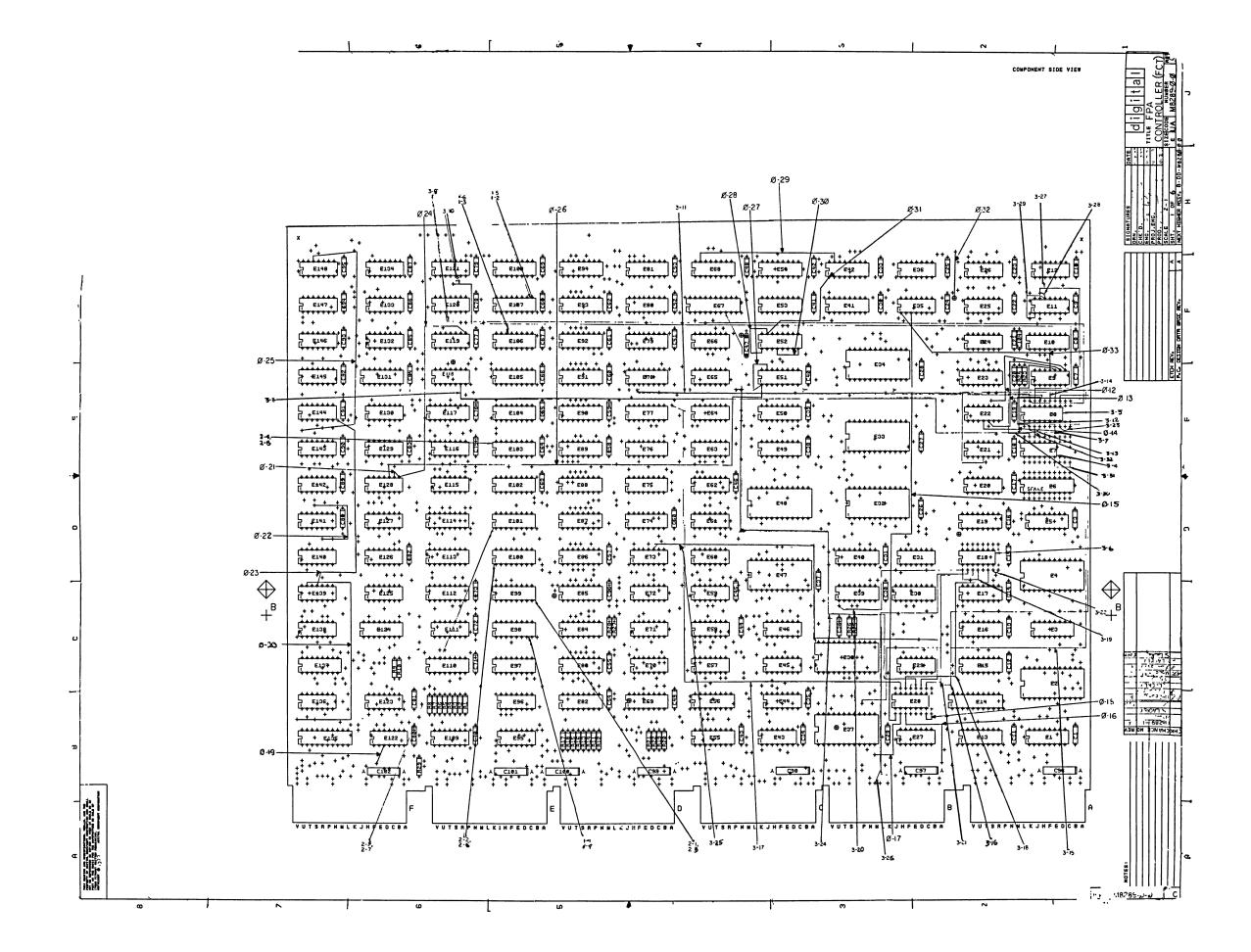


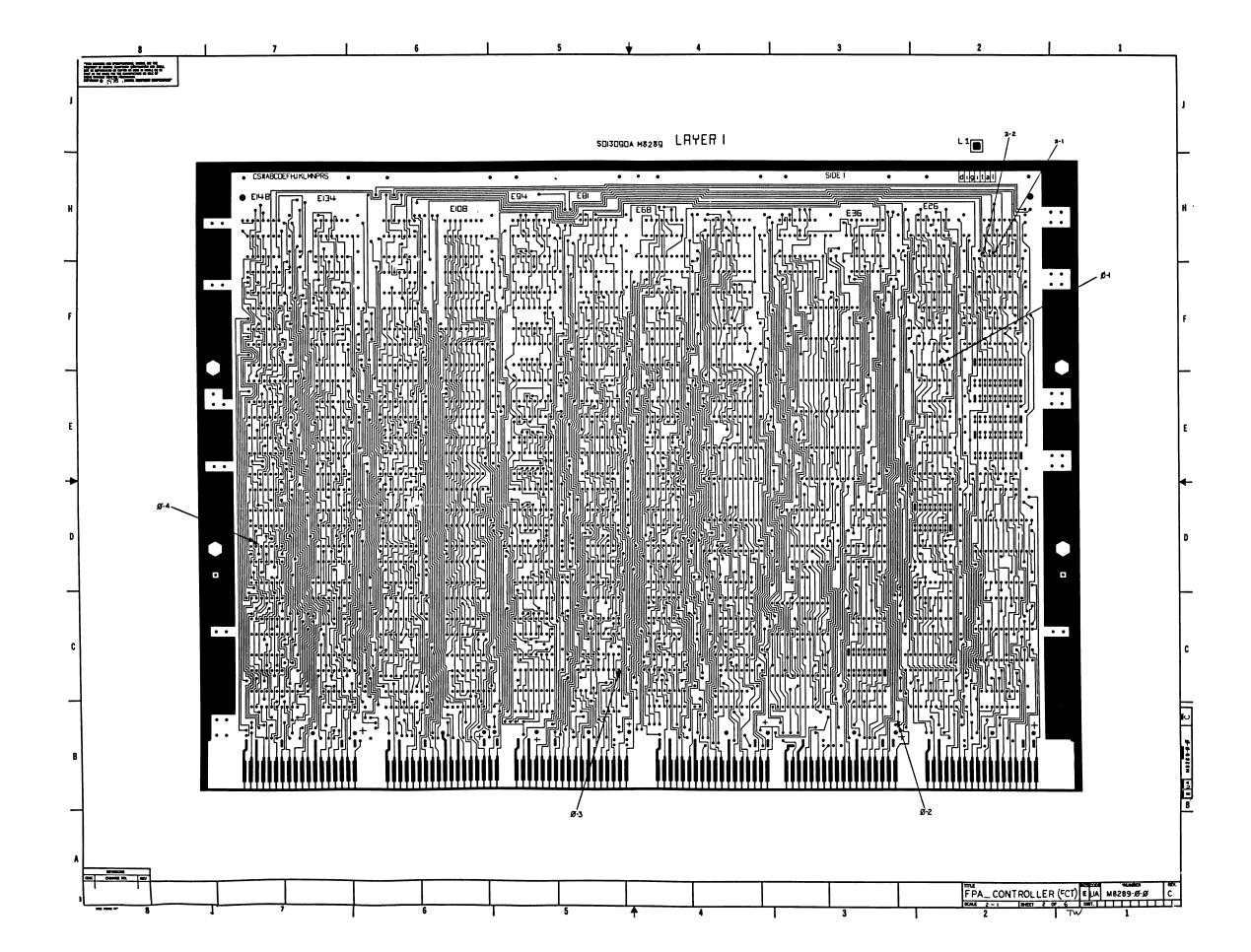




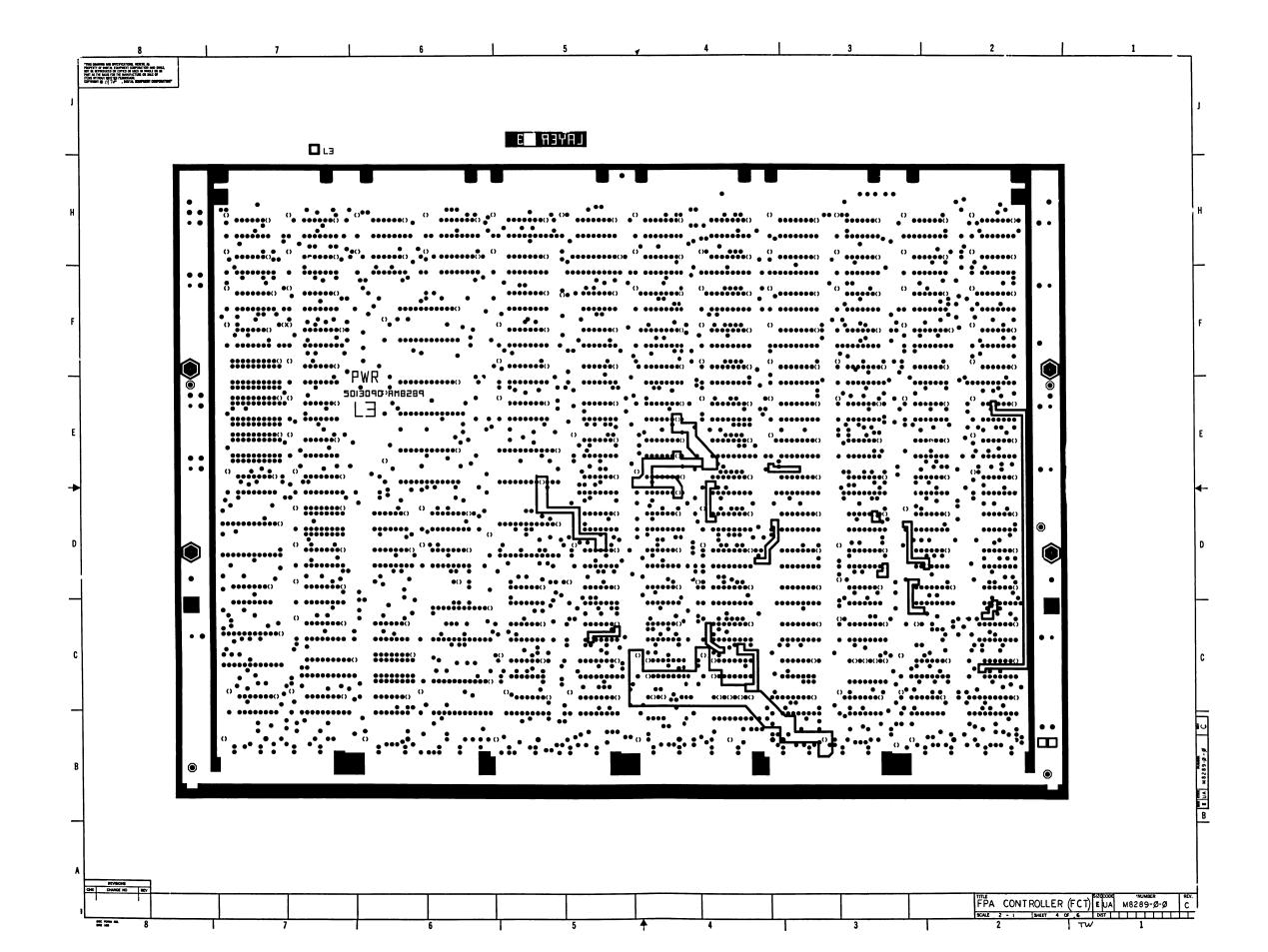


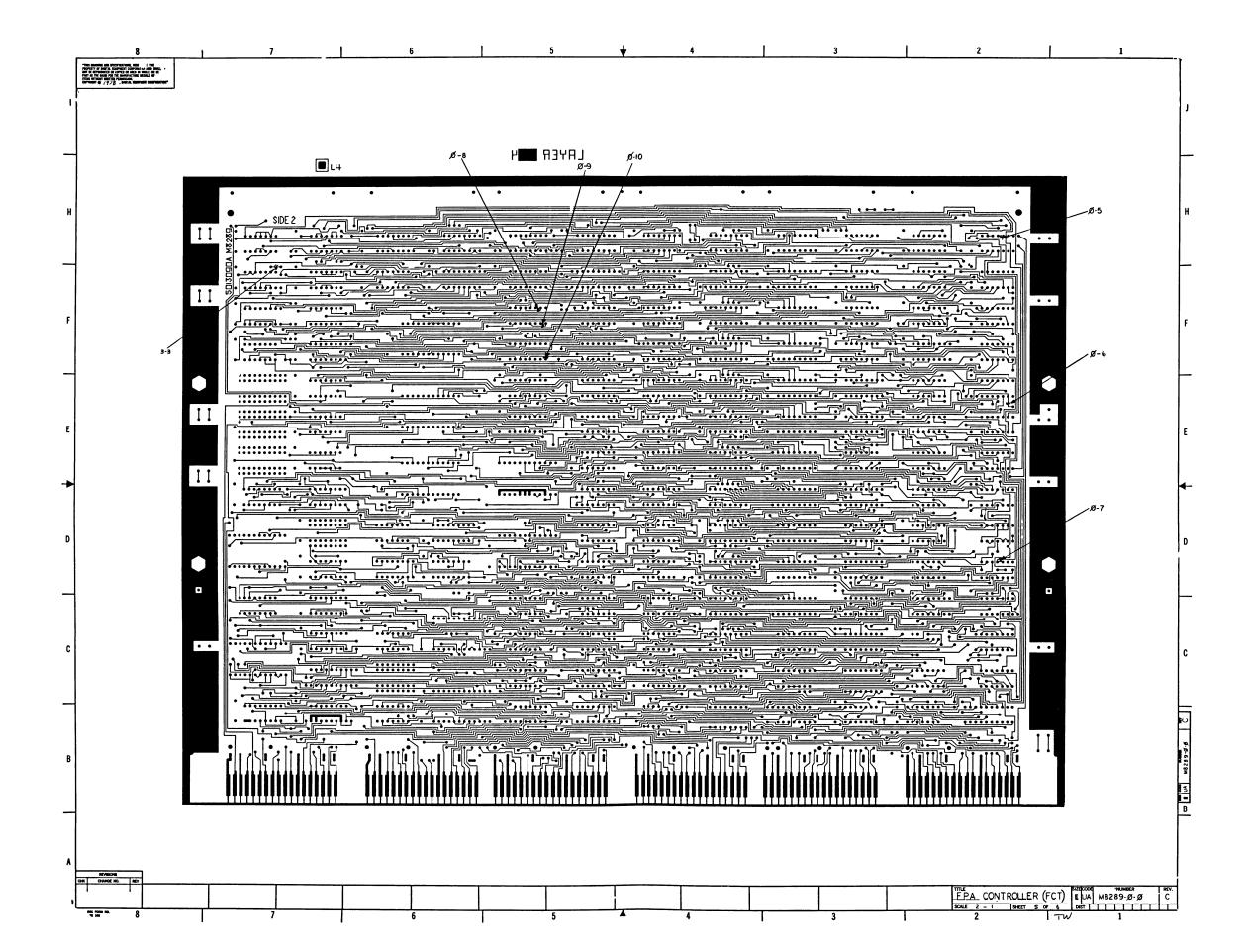


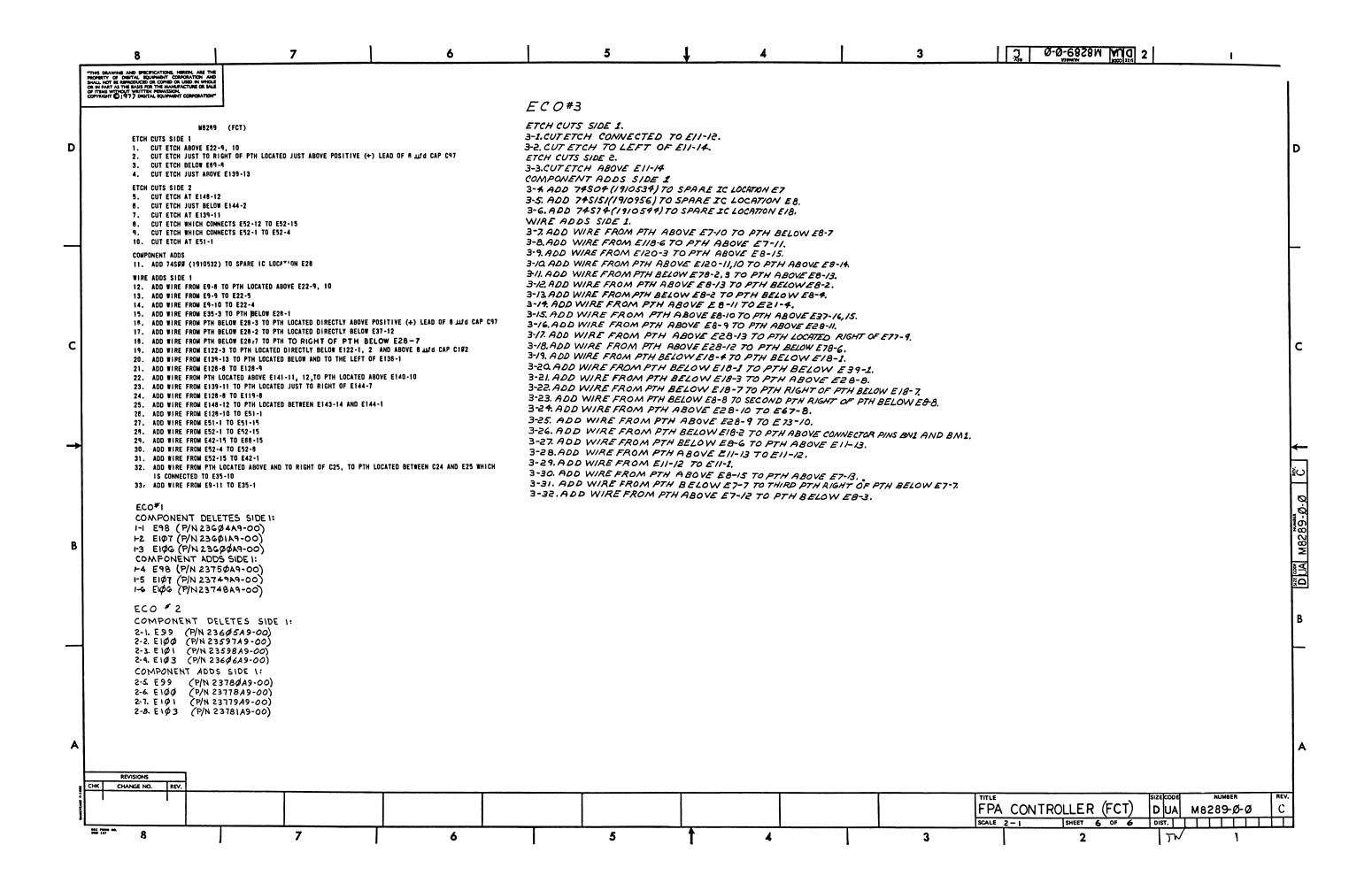




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24	24 	HISTORY		1910549-00 !BASIC FART NO: M8	**** **** **** **** **** **** **** **** ****	B MUX 1 OF	2 (QUAD)	5		E50 +1	E113,E114,E131,	E39 	
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AUTOMATED BY PRTLST.1C(4) FARTS LIST			QTY PER VARIATIO	SHEET A2 OF A2
LINE ITEM DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	00	REFERENCE DESIGNATOR
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